ASSESSMENT REPORT

OF THE FOUR SOUTHERN TAHSILS,

RUPBAS, OOCHAIN, BIYANA AND BHUSAWAR INCLUDING THE JAGIR OF BALLABGARH.

BHARATPUR STATE.

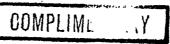
(1899-1900.)

BY

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SETTLEMENT COMMISSIONER.





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ASSESSMENT REPORT

OF THE FOUR SOUTHERN TAHSILS,

RUPBAS, OOCHAIN, BIYANA, AND BHUSAWAR INCLUDING THE JAGIR OF BALLABGARH.

BHARATPUR STATE.

CHAPTER I.

This report deals with the four southern tansils of Bharatpur and will therefore complete the proposals for northern tabsils—Gopalgarh, Pahari, Kama and Dig—were reported on by me the re-assessment of the State. normern tausiis—Gupaigarii, Lanari, Rama and Dig—were reported on by me in September 1898, and the assessments having been sanctioned by the Governin September 1999, and the assessments having been sanctioned by the Government of India letter No. 677-I.A., dated 11th March 1899, were announced ment of India letter No. 677-I.A., dated 11th March 1899, were announced ment of india letter 170. Of 171.A., uabed 11th march 1099, were announced by me in August last and were willingly accepted by the 429 khalsa estates by me in August 1280 and were willingly accepted by the 428 knatsa estates as concerned, and by the zamindars and mafidars of all the assigned estates as concerned, and by the vaminuars and majorates of an the assigned estates as well with the exception of three villages in which both parties agreed to maintain the old system of fixing the revenue by mutual consent.

A report on the four central tahsils—Kumher, Akhegarh, Bharatpur and Nagar—was submitted by me in July 1899, and sanction to the proposals having Nagar—was submissed by me in our consents maying been accorded by the Government of India letter No. 2976-I.A., dated 13th Deen accorded by the Government of India 1800 India 180 october, the vinage assessments were announced by me in October last, and were at once accepted by the 360 khalsa estates in these tahsils. Moreover of the 45 at once accepted by the proprietory and make mights are held to a which the proprietory and make mights are held to a second accepted by the proprietory and make mights are held to a second accepted by the proprietory and make mights are held to a second accepted by the proprietory and make mights are held to accepted by the proprietory and make mights are held to accept the second accepted by the proprietory and make mights are held to accept the second accepted by the proprietory and make mights are held to accept the second accepted by the proprietory and make might are held to accept the second accepted by the proprietory and make might are the second accepted by the second accepted accepted by the second accepted by the second accepted by the second accepted by the second accepted accep at once accepted by the sou knows estates in these tanshs. Moreover or the 4b assigned estates, in which the proprietary and mafi rights are held by different assigned estates, in which the proprietary and mafi rights are held by different assigned estates, in which held position agreed to shide by the Tanada and the state of the same as a second to shide by the Tanada assigned estates in the same as a second to shide by the Tanada as a second to shide by the second to shide by the shide by th assigned estates, in which the properties agreed to abide by the Jama fixed by me, persons, in all but six both parties agreed to abide by the Jama fixed by me, and these six decided to maintain the old system.

- The assessments for the eight tahsils (now reduced to seven by the Nagar) took effect from last kharif, but as the harvests of the past year were—at least in those tahsils—the worst on record Effects of the present famine on the new assessments. the narvests of the past year were at reason in those validate worst on record since the disastrous famine of 1877-78, considerable suspensions of the new since the disastrous ramine of total of the circumstances of each estate, and this comdemand were given according to the circumstances of each estate, and this com-bined with the liberality shown by the State in remitting all arrears prior to the settlement of 1890, on the occasion of the birth of a son and heir to His. settlement of 1080, on the occasion of the people to such an extent Highness the Maharaja, inspired confidence in the people to such an extent Highness: the manaraja, inspired confidence in the people we such an extent that not only were there no desertions of agriculturists as in past famines, but that not only were there and absorters are below the last account to great numbers of deserters and absentees who had held aloof from the land till great numbers of describes and absentions who had not about from the fand this the revenue policy of the State in the new settlement had declared itself, returned respection of their chandened haldings and respection of their chandened haldings. turned and resumed possession of their abandoned holdings and estates.
 - The financial results of the re-assessment of the northern and central table in which space has also been left to add in the figures for the four southern tabsils when complete:-

					L OF JAMA AS NOUNCED,		Increase in		ARREARS.				•
Tahsil.		Old khalsa demand	Banctioned . new demand.	Kuale	74.	36.0			Prior to		SINCE 1690.		R
				Initial.	Final.	Mag.	Initial.	Final.	1890 remitted.	Total.	Remitted.	To be realised.	
Gopalgarh		2,43,010	2,80,000	2,82	925	3,627	39,8	95	4,79,611	5,840	213	5,627	<u> </u>
Pahari	•••	1,23,717	1,38,000	2,62,925 1,38,605 (a)		2,722	14,8	88	1,15,345	11,381	4,691	6,690	(a) Excludal Paha
Kama		1,39,264	1,57,000	3,57		14,964	19,1	36	1,69,415	5,591	2,765	2,816	
Dig	••	1,35,304	1,53,000	1,56,163 (b)		64,787	20,6	59	3,32,751	14,575	5,375	9,200	(b) Exclus kho separa
Total northern		6,40,325	7,28,000	7,35	,093	86,100	91,7	63	10,96,122	37,377	13,044	24,933	
Nogar		69,663	1,05,000	1,01,492	1,06,785	2,775	14,821	17,117	3,51,071	1,569	989	580	\
Akhegarh	***	1,35,574	1,38,000	1,40,483	1,42,783	21,618	4,909	7,209	263,002	70,340	42,747	27,503	. '
Kumher	•••	1,35,743	1,50,000	1,47,509 (c)	1,51,559 (c)	41,090 to 41,185	11,768 (c)	15,816 (c)	3,96,280	41,449	20,427	21,031	(c) Excludes Kumher to is kham, inc
Bharatpur	***	1,47,431	1,60,000	1,55,268 (d)	1,63,593 (d)	34,660 to 34,810	7,837 (d)	16,162 (d)	13,69,463	1,40,720	1,12,059	29,662	which is Rs Rs. 5,500. (d) Exclude of two khar Bharatpar
Foial central	•••	5,03,416	5,53,000	5,47,752 (e)	5,64,720 (a)	100,171 to 100,416	39,336	56,301	23,79,816	2,54,077	1,76,221	77,856	which is a 9,000 to Rs. (c) Excludes (d) about R
Total porthern central	and	11,48,741	12,91,000	12,82,845	12,99,813	1,80,271 to 1,80,516	1,31,101	1,51,072	31,75,939	2,91,454	1,89,265	1,02,169	
Raphas		1,05,855		,,,,,	111.22	,,,,,,,	,,	,	******	*****	3011.5		
Dochain	•••	1,72,705	*****	******	*****			404.007		******	*** **	******	
Blyana	•••	2,05,072	,,,,,,		*****		•	*****		*****	******	P*****	
Bhusawar (f)	•••	2,71,123	,		*****				,,,,,,	*****			(f) Of which is for the te
Cotal southern	•••	7,55,655	******	444.798	******		******	*****	*****	44444	*****		Pallabgarh
Grand total	•••	19,01,396			*****		,	,		•			

Thus in the eight tabsils dealt with up to date the *khalsa* demand has been enhanced (omitting the demand for the four *kham* estates of Mandal, Kümher, Bharatpur and Srinagar) by Rs. 1,34,104 or 11.5 per cent. initially, and by Rs. 1,51,072 or over 13 per cent. finally, *i.e.*, from the sixth year of the new assessment. This moreover does not include the demand on account of excess waste—the property of the State or the villagers—separately leased for cultivation.

This may seem a serious enhancement in a State which cannot be called prosperous, but on the other hand (1) old arrears prior to 1890 amounting to nearly 35 lakks have been remitted, and of the arrears since 1890-nearly 3 lakhs-about 2 lakhs have been struck off, and all instalments on account of these have been given up; (2) a number of extra cesses hitherto realised have been abolished; (3) the water rate on sairaba or flooded lands has been included in the new Jama except in Nagar and the few kham estates; (4) the new demand has been more justly apportioned between the estates and more carefully distributed over the holdings in each estate; (5) the damage caused by floods and by the ravages of wild cattle has practically ceased owing to improved administration; (6) the principle of giving suitable suspensions in bad years has been established. All these facts considerably discount the apparent great increase in the demand, and the readiness of the people to accept the new assessments not only in khalsa estates, but also in maji villages where they were given the option of adhering to the old system, is, I think, a proof that they are reasonable and moderate. The present report deals with the four southern tahsils, which are the most favoured by nature and should be the most prosperous in the State.

4. The method of working is that explained in paragraph 2 of last year's report. M. Hira Singh, Deputy Collector, Method of working. who has already carried through erations in four tahsils, is in direct charge of the Bhusawar tahsil, and Mr. H. Pyster holds charge of Rupbas, Biyana, and Oochain. Settlement perations were systematically undertaken in October 1898. assified, the maps were brought up to date, and the work of preparing an curate record-of-rights representing the facts of the year 1898-99 was taken This was a work of considerable difficulty owing to the fact that no egular settlement had previously been made and such records as were available ere incomplete and untrustworthy. Concurrently with the preparation and peal attestation of the records, the circle officers inspected every village, ecorded assessment notes, disposed of disputes and difficulties in the way of When the data for re-assessment were complete I made preparing the records. a village-to-village tour of each tahsil, viz., Bhusawar, Rupbas and Oochain in November and December 1899, Biyana in March 1900—during which I carefully inspected every village in Rupbas and Oochain and all but two in Bhusawar.

In Biyana I had to leave about 50 estates over till next kharif as owing to the drought the crops had been cut early in March and there were difficulties about camping. These however I intend to inspect before giving out their assessments. In the course of these tours I endeavoured to ascertain all the facts and circumstances bearing on the assessment of the tahsil as a whole and All villages where the assessment had broken down and which of each estate. owing to the desertions of the owners or their refusal to accept liability had come under direct management received special attention. In most cases by the remission of most of the arrears, by arranging for a just system of distributing the demand, and by the judicious grant of takari, the old owners were encouraged to resettle and resume cultivation. This in a famine year and on the eve of a re-assessment was a most encouraging symptom, and the credit of its success in Bhusawar, where such cases were most numerous, is mainly due to the tact, sympathy and zeal with which the Deputy Collector M. Hira Singh approached the work, thereby inspiring confidence into the people.

Position and boundaries of the four southern tabsils.

5. A reference to the attached map will help to explain the position and boundaries of these tahsils. Each of them except Oochain touches foreign territory, and all are influenced by the two great

torrential streams—the Banganga and Gambhir and their tributaries. the most eastern, is triangular in shape and juts into the Agra district which runs along the two sides, while the base or western side rests on the Oochain A continuous range of hills, rising at the highest point to 817 feet above sea level, forms the southern boundary with Agra, and some scattered hills also penetrate from Biyana on the west side. The rest is a level plain of a stiffish black soil sloping gently from the hills on the south to the Gambhir which traverses the tahsil from west to east. On both banks of and to the north of the Gambhir the soil is light but fertile.

Oochain is a level plain (except for a few hills on the south-east boundary) surrounded on all sides by Bharatpur territory, irregular in shape, and largely influenced by the annual floods of the Banganga and Gambhir, which have The soil except in the their junction in this tahsil at the village of Karka. vicinity of these two streams where sandy deposits have not altered its natural character is stiff and fertile, especially on the south-east adjoining Rupbas, and with good floods or abundant rainfall yields excellent crops, but the well water in the northern villages adjoining Bharatpur and Akhegarh is often saline. As in Rupbas there is a gentle slope from south to north.

The Bhusawar tabsil on the west including the temporarily-forfeited Jagir of Ballabgarh touches Jaipur on the west and south. A broad but low range of hills on the south separates it from Biyana, and the land on this side is rocky, uneven, and much cut up by the hill drainage. There are also several scattered hills on the south-east round Weir. The northern portion is traversed from east to west by the Banganga and is all a level plain of fuirly good loam sloping gently to the north. Well water is sweet and chahi cultivation excellent except in a few villages towards the north boundary, where the brackish or bitter water of the central tabsils reappears.

The large tahsil of Biyana occupies the extreme south of the State affrom east to west marches successively with the Agra district and the State of Dholpur, Karaoli and Jaipur. The south-east is composed of low hills of the covered by a dense growth of low jungle and sometimes enclosing fortivalleys in which the rough Gujar inhabitants keep many cattle, and carry decultivation with very fair success from numerous wells. This tract is intersected by the Kakund stream from the south, which is joined by numerous deep naterunning down from the hills, and pursues a course due north to join the Gambhir.

The south-east known as the "Nahera" is also a wild and uneven trade made up of alternate bare sandstone hills and undulating sandy plains which the hill drainage has in many places scarred out into almost impassably ravines. At Damdama near Biyana town the hills rise to a height of 1,222 feet and are crowned for a circumference of 7 miles by the forts and ramparts erected by the Lodi dynasty when they made their capital on the site of the renowned Rajput stronghold of Biyana. This tract is intersected by the Gambhir stream running south-west to north-east and its numerous affluents.

The centre and north of the tahsil known as the "Kather" consist of a level plain crossed from east to west by a single low and narrow ridge of hills. It is traversed by the Gambhir and Banganga, benefits much from their inundations, has a clean fertile soil, water plentiful and generally sweet, and in consequence has perhaps the best chahi cultivation in the whole State.

- 6. From the above remarks it will be seen that the natural features which have most influence on cultivation are the General description of the chief Banganga, Gambhir, and Kakund streams, All of these are torrential streams which rise in adjoining and their affluents. States, are fed by the annual rains, and then bring down enormous silt-laden floods with great velocity often inundating the country on both sides for miles and completely cutting off communications for days. After the rains they dry up completely, but the land flooded by them unless injured by sand deposits, produces excellent spring crops; the wells for a considerable distance along their course permanently benefit by having the water level raised and the water made sweet and abundant; while their sandy beds are covered. especially in the case of the Gambhir, with a thin layer of ash manure and are sown with wheat, barley, melons or vegetables. These crops are irrigated from chohas or holes dug in the sand which rapidly fill with water by means of buckets worked with the hand, and the yield of grain on these highlymanured and well-watered little plots is often phenomenal.
- 7. The Banganga or Utangan stream is important not only because of its influence on cultivation in Bharatpur, but also because it has been the subject of long and vigorous controversy with the Jaipur State from which it comes, and the Agra district whither it goes. The Banganga rises among the Jaipur hills about 30 miles due north of Jaipur city.

It runs for a length of about 30 miles in a south-easterly direction to Ramgarh Jamwa 15 miles north-east of Jaipur and the hills into the eastern plains. The catchment area in Jaipur up to this point is 324 square miles. The Jaipur Darbar had long been desirous of constructing a great irrigation dam at Ramgarh which would utilise for irrigation all the supply up to this point, but the Bharatpur Darbar resisted the project on the ground that it would cut off a considerable portion of the Banganga floods. Finally in 1897 it was arranged that Jaipur be allowed to construct the reservoir on accepting the condition that the Bharatpur Darbar should be entitled to submit to the final arbitration of the Agent to the Governor-General its claims to compensation for damage (if any) actually caused by the work. The dam, I believe, is still under construction, and its influence on the Banganga supply in Bharatpur has not yet therefore made itself fully felt.

From Ramgarh the Banganga runs due east receiving the drainage of the central plains of Jaipur and of the hilly tracts in the south of Alwar.

If The catchment area cast cthe Ramgarh dam is in Alwar 401 square miles in Jaipur 1,065, or a to 1,466 square miles. After a further course of hiles almost due east, is s the Bhusawar tahsil of Bharatpur at Kamaland has a catchment 142 square miles among the hills in the south From the vit runs still almost due east for a distance of 30 3husawar. es through the Bhu Biyana, and Oochain tahsils to Karka in Oochain re it was formerly by the Gambhir stream from the south. bined streams w/ e now practically the Gambhir alone, as the Banganga austs itself by s the north before reaching the old junction, continue t for a distance of 25 miles through the Oochain and obas tahsils. g in places the boundary between Agra and Bharatpur, of Agra, and after a further course of about 80 miles through o the Karaoly arh, and Fattehabad tahsils of Agra finally join the Jumna on ailes east of Fattehabad and about 235 miles from its source. Karaoli, K/ right bay e the name of Banganga or "arrow-Ganges" from the legend is said to at durin wanderings of the five Pandava brothers, water having failed ne famous archer drove an arrow into the ground and from the pm, Aر ong the fountain which is the source of the stream. inctu/ ·ficy/ fording it when sudden freshets came down, it is also known as the ros Thar or overthrower of horses. The course of the Banganga through ils is about 30 miles to its junction with the Gambhir at Karka and from the junction to Moroli where it leaves Bharatpur for Agra. most of its course a broad, shallow, sandy bed. The banks especially e north side are low and are covered often to a distance of two or three is from the streams with dense growth of jungle grasses known as sarkanda kans, or with the shrub known as jau, all of which grow freely in the deposits sand left by the periodical inundations.

These inundations which when not controlled were often the cause of enormous damage not only to Bharatpur but to parts of the Agra district, but are now owing to the skilful measures for utilising them adopted by Mr. Devenish, the State Engineer, the mainstay of the presperity of these tabsils, are thus explained in a note dated 28th February 1893 by Mr. Palmer, Executive Engineer, North-West Provinces, who was put on special duty to report on the measures to be taken to reduce the floods.

"The catchment lies entirely among steep hills and gives rise to sudden floods; the river bed is remarkably steep and the very high velocity its floods thus obtain brings down great quantities of sand more or less in suspension during most of the journey. As soon as such a flood reaches flatter ground, the velocity is decreased and it begins to deposit silt; and if the decrease of velocity is sudden it deposits more silt than it can push on and thus chokes its channel. This is the real disease of the Banganga, and its condition now is such that it may burst through at Dharsoni, or at Thilchabi, or at Ghazipur or above Khanpur; and it may possibly burst through all these places in succession."

In another note dated 24th November 1892 Mr. Palmer gives the history of the more important breaches or spills.

"Some obstructions at the old mouth (where it joins the Gambhir)—perhaps a very high Gambhir flood—led to the first spills there; then the changes made there increased the evil and a spill channel was formed from Karka; then that began to fill up, and in 1885 a spill broke through near Farsu; now the Farsu-Oochain spill is silting up, and a new one has started between Barkhera and Kherli, and here there is a pause. This is the point we are now at. Just above Farsu there is a gap through the hills to the south and a great spill has formed itself to the south through Nagla Khushfaim. The slope of this spill is greater than that of the torrent, and it is therefore able to keep itself clear It runs directly into the Gambhir; that more continuous river runs for four to five months after the Banganga has dried up, and it gradually removes the surplus silt brought down by the spill."

Mr. Palmer then notices the destructive effects of these floods, especially those of August 1885 and of September 1891, not only in Bharatpur but in the Karaoli tahsil of Agra where the *kharif* crops were swamped in nearly 100 villages and large suspensions and remissions of land revenue had to be given.

"The tract thus liable to flooding from the Banganga hears everywhere the marks of a decaying agriculture, the jungle is plainly increasing and the population decreasing, while

rents have so fallen off that it has become necessary to reduce the land-revenue charges on a great number of villages to preserve their zamindars from a more general ruin than has already befallen them, and the reduction has risen to over 80 per cent. of the revenue in several villages"

Apparently the chief danger to the Agra district lay in the possibility of (c) Proposals for reducing the inun- the Banganga floods—all of which except the spill at Khushfaim to the southbreak out on to the low ground to the north of the torrent—joining the Khara nadi, which carries the overflow from the swamps east of Bharatpur into the Karaoli tahsil of Agra, and thus completely swamping a large portion of that tabsil in seasons of heavy rainfall. To provide against this emergency it was proposed to deepen the spill channel to the south at Khushfaim so as to divert the Banganga back into its old junction with the Gambhir, by which a sufficient waterway is provided for the passage of the floods to the Jumna. The Bharatpur Darbar objected to this proposal on the ground that it would (1) reduce the annual Banganga floods which though occasionally disastrous to individual villages are on the whole beneficial to the State, (2) deteriorate the fertilising influences of the Gambhir silt by the admixture of the sterilising Banganga sand. In March 1894 the whole subject was threshed out by Colonel Harrison, Secretary, P.W.D., Irrigation Branch, of the North-West Provinces, andi Mr. White, Secretary, P.W.D., of Rajputana and Central India, who made a jont tour of the affected area. The weight of the objections raised by Bharatpur was recognized, and as the Bharatpur Darbar had meantime appointed a qualified Engineer to control the floods in its boundaries, the Government of. the North-West Provinces in a letter No. C. 5521, dated 6th August 1895, agreed to the Khushfaim project being dropped

"on the understanding that measures are being taken by the Bharatpur Darbar towards diminishing the violence of excessive floods from the Banganga, and that this Government will be consulted as regards projects prepared by Engineers in the Bharatpur State."

It was added—

"that the prosecution of the scheme for storage of some of the waters of this river in the Jaipur State appears to be in the highest degree desirable."

The execution of this scheme, viz., the Ramgarh reservoir, has been already alluded to.

Since 1895 there have been no further complaints of damage in Agra by (d) Utilisation of the floods for irri-Banganga floods, partly-perhaps because the rainfall of recent years has been moderate, but chiefly because the irrigation works undertaken for the proper distribution of the floods by Mr. Devenish, Executive Engineer, have enabled the supply to be fully utilised in Bharatpur and converted them from a curse into a blessing. He writes—

"The conditions now are that we use nearly all, if not all of the floods of the Banganga river. It is possible that in an exceptionally heavy flood, a small proportion of the water finds its way beyond the Bharatpur borders. We use certainly all the water of moderate and light floods for irrigation. This use of the water has been effected by the restoration of old works and by the construction of new channels and banks."

(e) Chief irrigation works on the Banganga. The principal works now fed, or to be fed, by the Banganga floods are—

- (1) The Pathena canal—north bank—in course of construction, bed width 30 feet, to be enlarged subsequently to 50 feet. This is estimated to irrigate 10,000 bighas chiefly in Akhegarh tahsil.
- (2) Ullupura canal, south bank, bed width 20 feet. This is an old worlintended to fill the Attaripur band in Bhusawar, but it has a bad head and he not yet worked freely. A new head has now been selected further down to stream at Mala Hera, from which a channel 30 feet wide is being dug, and his is estimated to irrigate 2,000 bighas.
- (3) Haleyna canal, north bank, bed width 50 fcet. This takes out of the river at the site of the old spill at Thilchabi, now irrigates 4,000 bighas in Bhusawar and Oochain, and when completed is estimated to irrigate from 20,000 to 40,000 bighas in these tahsils, and also in Kumher.

- (4) Lalpur canal, south bank, bed width 50 feet. This has a length of four miles and feeds the Lalpur band in Bhusawar and the following subsidiary bands through the sluices, Jiwad, Lohasa, Jatpura and Ajrond. Last year it is said to have irrigated 4,000 bighas. When fully utilised by the flooded land being brought under cultivation it will irrigate up to 10,000 bighas.
- (5) Oochain canal, north bank, bed width 50 feet. This utilises the Sewar-Oochain road which has been raised and strengthened for a length of 7 miles to act as a training work, and had 8,000 bighas of cultivation last year, nearly all in Oochain, including the contents of several subsidiary reservoirs fed from the sluices under the road. This area can be raised to 10,000 bighas, and this canal also fills the fine Sewar band in Bharatpur which already has 3,000 bighas of cultivation.
- (6) Similarly the natural spill from the Banganga around Farsu is being controlled and utilised by means of the Oochain-Biyana road now being restored and constructed as a training bank with flood-escape openings and regulators. This irrigated 4,800 bighas last year in Oochain, and when the works are completed will in good years irrigate 10,000 bighas.
- (7) The Ajan band system in Bharatpur, which was fully described in para. 7 of last year's report, is also fed by the Banganga floods. The development of this is one of the most promising schemes in the State. The cultivated area in these villages—formerly the most depressed and miscrable in the whole State—has risen from 5,000 bighas in 1896-97 to nearly 20,000 bighas last year, and when the enormous areas of waste now given out for cultivation on special terms (see paras. 65 and 66 of last year's report) are fully utilised, it is hoped that the area will rise to 50,000 bighas. Besides these main works which are dependent on artificial channels, there are several well defined spill channels, of which Mr. Devenish writes—

"The flow of these has also been tapped and utilised by the construction of embankments and cuttings. During the last 5 years we have been engaged in improving the storage and distributary system."

The area so irrigated by natural spill from the Banganga is about 10,000 bighas, and when the large areas of waste along the Banganga have been cleared for cultivation under the special arrangements now being made, this, it is hoped, will be doubled.

Altogether about 60,000 bighas of cultivation were irrigated from the Banganga last year, viz., 25,000 bighas in (f) Area irrigated at present. Bharatpur tahsil and about 35,000 bighas When the projects now under construction are in Oochain and Bhusawar. completed and arrangements for the cultivation of the flooded waste lands perfeeted, this area will probably be doubled, so that in five years if the present officient management is maintained, sufficient funds allotted for the works, and the active co-operation of the Revenue authorities insisted on, the Banganga floods should irrigate from 100,000 to 125,000 bighas or 40,000 to 50,000 acres of excellent cultivation, and will become the most valuable asset the State possesses—more valuable even than the Ruparel. Hence any scheme to cut off or reduce the supply by the construction of dams or irrigation works higher up the stream, as in the case of the Ramgarh reservoir, should in the interests of Bharatpur be sternly resisted, for there is no doubt now that the floods can be fully utilised in Bharatpur.

8. Practically the whole volume of the Banganga is now tapped by means of the artificial channels or natural spills before its point of junction with the Gambhir at Karka, and the inundations east of that point are those of the Gambhir. The Gambhir differs from the Banganga in having a less licentious channel contained within wide, well-defined banks which it rarely breaks through, and in depositing very fertilising silt. It rises near Khera in Jaipur and runs almost due east for a distance of about 40 miles before it touches the south-east of the Biyana tahsil. For a few miles it forms the boundary between Bharatpur and Jaipur and then runs due east for a length of 10 miles as far as Secundra receiving the drainage of the Nahera tract on the north through

the Talra and Gaddi Khor nalas and of the Dang tract in the south through From Secundra it runs almost due north past the town of the Raseri nala. Biyana, where it is joined by the Maidani nala bringing down the drainage of the Biyana hills. At Naddigaon, 12 miles north of Secundra, it is joined by the Kakund stream, or rather by such portion of it as escapes through the Bareta dam. It then takes a curve to the north-east and after a further course of 8 miles joins the old bed of the Banganga at Karka in Oochain. Up to this point the inundations never extend beyond the well defined banks, within which however there is a large area of excellent chahi, khatili and sairaba land producing as fine crops as any in the State. From Karka it strikes due east, and as the channel, owing probably to the former sand-deposits of the Banganga, is shallower and the banks lower, the stream thenceforward begins to exhibit the capricious qualities of the Banganga, and breaks out into inundations which extend through Bhainsa in Oochain up to the Ajan band, and also through Chandauli, Khanwa and several villages of Ruphas on the north into the Agra district, while on the south side it is tapped by channels at Dahnagaon and Bokoli, which are carried through cuttings between the hills to fill the bands and irrigate the centre of the Rupbas tahsil. In its course east from Karka the stream deposits sand in profusion, but the soil though light in appearance is very productive and yields excellent crops of bajra and til in the kharif. About 12 miles east of Karka, at Undel Jat, the stream (which though now really the Gambhir still retains its old name of Banganga) begins to form in an intermittent way the boundary between Bharatpur and Agra. At Singholi further east it overflows into the Khari nala which entering Rupbas from Biyana on the south-west traverses its entire width till it joins the Banganga at Mehartha on the extreme east of the tahsil bringing the drainage of most of the Rupbas tahsil. The spill into this nala overflows and fertilises the eastern villages of Rupbas. The course of the stream after it leaves Rupbas for Agra has already been described.

It has a separate channel through Biyana and Oochain for a length of 35 miles before it joins the old bed of the Banganga at Karka, and a length of 25 miles from Karka before it finally leaves the Rupbas tabsil at Morori. This will explain what a far reaching influence the stream has in these tabsils and that influence is entirely beneficial, while the vagaries of the Banganga proper are often decidedly destructive. No great irrigation work has yet been constructed on the Gambhir, but the Executive Engineer is on the look-out for a favourable site.

- 9. Of the affluents already mentioned the largest is, or rather was before the Bareta band was constructed, the Kakund. This rises in the temple of Kaila Devi among the Karaoli hills 30 miles to the south of the Biyana boundary which it enters at the village of Gordha among the hills of the Dang. Up to this point its course is over a rocky plateau from which it descends by a series of falls at Gordha, and pursues its way between the parallel chains of hills for a distance of 8 miles to the hamlet of Bareta where the hills close in, and are now united by a magnificent masonry dam which effectually holds up the stream, and by means of which over 10,000 bighas of khalsa and mast land were irrigated last year.
- 10. This work was begun by Lieutenant Home, the State Engineer, in The Bareta band.

 1866, but abandoned in 1869 on the accession of the late Maharaja after about Rs. 70,000 had been expended on it and the dam had been carried half-way across. The work was resumed by the present State Engineer, Mr. Devenish, in November 1895. The dam was not sufficiently advanced to hold up the flood of 1896, and suffered some damage from the high floods of that year. Work was speedily resumed, and the dam was completed in time to catch and successfully hold up the floods of 1897. Owing to the ducts or masonry channels not being ready in that year there was no irrigation through the sluices and little cultivation within the dam as in order to test and consolidate the latter little water was run off. Meantime the construction of the three ducts or irrigation channels running north from the sluices was being steadily pushed on, though the uneven and raviney country through which they pass rendered the work tedious and costly.

In the rains of 1898 the water impounded covered an area of 3 square miles in the rear of the band with a cubic content of 700 million cubic feet. About 2,000 bighas were irrigated. In 1899 the dam filled up to escape level—45 feet above the bed—and the area submerged was 5 square miles with a cubic content of 1,500 million cubic feet.

Two of the irrigation channels had meantime been wholly and the third partially completed. The drought of the past year caused a brisk demand for water for the irrigation of both kharif and rabi crops and every effort was made to meet this. The results were most satisfactory. A total area of 9,328 bighas was irrigated from the sluices, viz., 6,192 bighas in 17 Biyana villages and 3,136 While an area of 1,017 bighas was cultivated bighas in 4 Oochain villages. within the band. Most of the land irrigated from the sluices received from 2 to 6 waterings and the rabi crops of wheat, barley, gram, when I saw them in March last were first-rate except in one or two villages at the tail of the irrigation channels. The dimensions of the dam are as follows—Length $\frac{3}{4}$ mile, maximum height 55 feet, maximum width at base 400 feet, capacity below escape level 1,500 million cubic feet. The dam has a catchment of over 70 square miles of rocky ground. The total expenditure since the work was taken in hand in 1895 has been about 2 lakhs, but I estimate that the value of the crops, over 10,000 bighas, grown in the first year of working would more than cover this capital cost. Even this year owing to two of the channels not having been ready till the season was rather advanced not more than half the supply was utilised for irrigation, and in future we can safely count on about 25,000 brghas being irrigated in an average year, of which about three-tenths would be in the Oochain villages around Rudawal and seven-tenths in Biyana. The limit of irrigation is the Gambhir on the west and north. Besides the direct benefits by sluice irrigation to villages in the rear of the band, many villages close to it benefit by the proximity of a large body of water which raises the water-level and makes the supply in the wells sweet and abundant. On the other hand there are four villages within the submerged area which have lost heavily as their village-sites have had to be shifted, their wells have collapsed or been choked with silt, and much of the area being under water all the year round has been rendered permanently unculturable. It is not creditable to the State administration that these sufferers for the general weal should so far have received no compensation. I am now enquiring into the losses they have sustained and propose to give them compensation by a proportionate reduction of the revenue or the water-rates for the term of settlement. I may here explain that all of the Bareta irrigation charges will be kept apart from the land-revenue and will be a fluctuating demand assessed year by year on the area irrigated and the The rates provisionally adopted for the present year are. crops grown.

Kharif crops Sugarcane ... Rs. 3 per bigha.

Cotton and maize ... , 2 ,,

Other crops ... Re. 1 ,,

Rabi crops Re. 1 to Rs. 2 per bigha, according to situation, quality of crops and number of waterings.

For future working rates will be fixed after consultation with the Executive Engineer and the Revenue Department with the sanction of the Political Agent and Council.

11. The Kakund, or such portion of it as leaks or is allowed to escape Course of the Kakund below the Bareta band, strikes northeast in a deep and well-defined channel which has water in creeks and pools all the year round. The villages along the bank irrigate from these by means of dhers and jhalars, and there is also some excellent khatili cultivation in the bed. The stream finally joins the Gambhir at Naddigaon about 10 miles north of the dam.

The Banganga, Gambhir, and Kakund are the streams which have a general influence on agriculture. There are other nalas or hill torrents which are more

or less utilised to fill the minor dams so common in this tract. These will be noticed in the description of each tabsil.

12. The following description of the mountains in this tract is borrowed from the Rajputana Gazetteer (Vol. I, page 134):—

"The Sidgirpahar range runs on the south-east frontier between the parganas of Ruphas and Biyana of Bharatpur and Sarhendi of Agra. The general direction is from north-east to south-west and the length about 30 miles; the highest point is Usera, 817 feet. In it are situated the celebrated Bansi-Paharpur stone quarries. The range becomes broken in the southern part of Biyana into irregular branches which help to form the district called the Dang, a tract completely broken up with ravines, very difficult of access and covered with jungle, the highest portion forming a plateau. North-west and parallel to this is an interrupted range running through Rudawal to the south of Biyana which by its southern extremity helps also to form the Dang.

"The other hills in the south consist of two broken irregular ranges running generally in a parallel direction with several offshoots through the parganas of Weir and Biyana from north-west to south-east. The highest point is Damdama (near Biyana) 1,215 feet. These hills are separated from the Sidgirpahar range by the Gambhir river."

The hills though they cover a large area especially in Biyana and the south of Bhusawar are low, and except in the Dang rather bare of vegetation. One cause of this is that all the hillsides are the property of the villages. None belong to the State, and therefore nothing has been done to prevent deafforestation.

13. As Bharatpur forms part of the alluvial basin of the Ganges and Jumna, the great majority of the exposed rocks Geological formation of the hills. are alluvial consisting of modern alluvial deposit with blown sand which the wind carries from the desert of Rajputana and occasionally forms into mounds to the Iceward of some natural inequality The main range already referred to consists almost entirely. in the surface. of sandstone of various texture and colour, varying from a very fine rock to almost conglomerate. The prevailing colour is brick red with white spots or streaks sometimes green and yellowish-white occurring in alternate beds of considerable thickness. It is in this that the most valuable quarries are found of the famous red and white Rupbas sandstone from which the finest palaces, mosques and temples of Dehli, Agra, Muthra, Dig and Fatehpur-Sikri have been constructed. Both varieties of stone are in considerable demand, and Bharatpur is in the happy position of having a monopoly of the best kinds. The rates of duty charged by the State on sales to outsiders are per 100 maunds, Rs. 8 for the red and Rs. 20 for the white sandstone which is rarer. The net income, which has risen considerably since the management was taken over by the Executive Engineer in recent years, has been-

1896	•••	Rs.	17,072
1897	•••	,,	19,882
1898	•••	2,	17,522
1899	•••	3,	23,279

This leaves out of account the large quantities of stone supplied for State purposes.

The ridge running parallel with the main range through Rudawal consists generally of sandstone in massive strata and false bedded flags, usually hard and compact, occasionally vitrified, and reddish or yellowish in colour. In some places thick shaly beds, mostly of quartz or silex, but sometimes of clay are found. The hills west of Biyana and divided from the Sidgirpahar by the catchment basin of the Gambhir river are formed of quartzite, sandstone, with strata of trap and shale. Copper and iron are found, but not in quantities large enough to repay the cost of working. The stone too is less valuable for building or ornamental purposes.

Generally speaking the red sandstone is inferior for architectural purposes to the white owing to the irregularity of its colouring, also to the liability of some specimens to disintegration from the effects of time. The red variety is remarkable for perfect parallel lamination in consequence of which it can by means of wedges be readily split up into flags or slabs of any required thickness. Hence its suitability for roofs and floors.

The white or cream-coloured variety is uniform in colour and texture, and therefore suitable for the most delicate and elaborate effects in carving. Owing to the thickness of the beds it can be procured in slabs of great size. For these reasons it lends itself peculiarly to architectural effect, as the palaces of Dig, the cenotaphs of the Bharatpur Maharajas at Govardhan, and the temples of Muttra and Brindaban testify.

14. The leading features of each tahsil will now be separately described, but summary of statistics of these these may be prefaced by a few leading tahsils and of the whole State. Statistics of area, cultivation, population, and revenue as given in the table below. The standard of measurement throughout the State is the Raj bigha—the square of a chain 132 feet long—which is equal to $\frac{2}{5}$ of an acre, so that 1,600 bighas go to the square mile.

				An	FA.			P	OPULATION	٧.	INCIDENC	E OF JANA.
									PER SQU.	REE MILE.		1
Tabell		Detail.	Number of estates.	Total.	Cultivated.	Revenue,	Revenue with all cesses,	Total.	Total area.	Cultivated area.	Per head.	Per acra of population.
Rupbas		Khalen	72 <u>1</u>	1,69,23 2 5,719	83,049 3,543	1,05,655 •••	1,18,194	26,352	231	458	Rs. A. P.	Rs. & P
	,	State property	1	7,390					•••	***		
	_	Total	78	1,82,341	60,592	•••		***	•••		***	
Oochain	- }	Khalsa Uaü State property	87 7 2	2,00,992 29,282 2,735	1,23,593 19,912 	1,72,705 	1,89,327 	43,412 	299 	493 	***	800 800
		Total	96	2,32,099	1,43,505		***	••		•••	1.,	***
Biyana	{	Khalsa Mafi State property	151 16 1	4,67,741 30,661 2,731	1,42,060 19,606	2,05,872 	2,25,959 	62,919	201 •••	623 	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***
		Total	168	5,01,133	1,61,666	•••		•••	***	349		_
(1) Khas		Khaisa Istamrar Mafi State property	123 1 9 3	3,03,810 3,134 20,636 10,014	1,65,119 1,009 15,241 3,290	2,36,489	2,59,059 	62,153 	295 	 	••• •••	***
İ		Total	136	3,37,694	1,95,619	***			•		•	•••
(2) Ballabgarl	h{	`	13	84,399 2,010	20,899 1,126	34,643	37,617 	7,550 	323 	53 9		***
Ā		Total	13	36,409	22,025		•••	***	•••			···
Total	{	Khalsa Istawrar Maß State property	136 1 9 3	3,33,209 3,134 22,646 10,014	1,86,018 1,969 16,367 3,290	2,71,123 	2,97,60G	69,703 	298 	538 	-	
Į.		Total	149	3,74,003	2,07,644	<i></i>	•••			•••		•••

				Az.		1		P	OPULATION	í .	Incidence	OF JAKA.
			Į.						PER SQUA	BB MILE.		
Taheil.	Detail.		Number of estates.	Total.	Cultivated.	Bevenue.	Revenue with all cesses.	Total.	Total area.	Cuitivated area.	Per head.	Per sere of population,
	Khalsa		416}	11,76,161	6,34,720	7,55,035	8,31,276	2,02,416	251	540	Rs. A. P.	Bs. A. P.
Total southern tabsils {	Istamrar	•••	1	3,131	1,969	***		•••	"			-
	Mafi	•••	36]	89,309	59,428		} "	•••	<u> </u>	_		
(State prope	ty	7	22,870	3,290		•••				•••	· · ·
	Total		491	12,90,476	5,99,107							
	Khalsa	•••	3582	7,90,671	4,03,165	5,61,720	,	2,29,279	391	621	2 15 0	2 15 0
Total central tabsils 4	Chauth	•••	1	2,853	1,264	-	add Re 7.13-0 per cent.	•••		 ,		"
Total central tabsils	,2I≠B	•••	62]	1,25,227	79,610	11,00,418 nominal)	•••] "		"
	State prope	rty	14	44,350	•••		•••	•••			**	•••
	Total		436	9,63,301	5,74,069	•••		•••				•
1	Khalsa	~-	403	5,69,089	5,40,238	7,35,003	add Rs. 7-13-0 per cent.	[' '	321	460	4 6 0	3 2 0
	Chauth	***	26	59,929	45,239	·		***		•••		
Total northern < tabsils.	Istamrar Mafi	•••	4 25	15,600 79,506	11,114 64,391	(86,100 no-	•••		_			
1	State prope	***	10	10,549	1	minal)				-		
· ·					•••							
	Total	•••	468	9,33,672	6,60,991	•••	•••			•••	,	
Total of State			1,395	31,67,419	18,34,457	{ 12,99,813 7,55,655 20,55,469	reassersed to be re- assessed.	8,20,645	312	531	***	•••

The State has an area of 1,992 square miles, of which 1,147 or 60 per cent. It has a population according to the census made during are cultivated. settlement operations (which though not elaborate is probably more reliable than the 1891 census) of 6,20,645 or 312 per square mile of total and 541 per square mile of cultivated area. The total land revenue is at present Rs. 20,55,468 excluding the 4 khom estates mentioned in para. 3 giving an incidence of about Rs. 3-8-0 per head of population and 1,751 per square mile of cultivation or about 2-12-0 per cultivated acre on the present jama, but these figures will be raised by about 2 per cent. in each case when the four southern tahsils have been reassessed. There are in all 1,395 estates, of which 1,2081 estates are kholsa. 27 are chaulh (i.e., pay one-fourth of the rental) 5 are istamrar, 31 are State property (runds, etc.) and 124 are held in jagir or mafi embracing about oneeleventh of the total, and one-ninth of the cultivated area. The total number of estates will now be increased owing to the formation of new estates in State or village waste allotted for cultivation.

The four tabsils now to be reassessed comprise about two-fifths of the total, and almost one-third of the cultivated area paying at present 37 per cent. of the total khalsa Jama, and contain 32 5 per cent: of the population. Owing to the prevalence of hills and the large areas of sand along the Banganga, Gambhir, etc., only 47 per cent. of the total area is under cultivation. The incidence of population varies from 200 per square mile in Biyana to 298 per square mile in Bhusawar, while on cultivated area it ranges from 483 per square mile in Oochain to 623 in Biyana, the average for the whole tract being 251 per square mile of total and 541 per square mile of cultivated area. The latter is practically the same as for the whole State, which considering the large amount of excellent waste land available for cultivation cannot be considered high. The special features of each tabsil, where they have not been already mentioned will now be discussed.

TAHSIL RUPBAS.

daries will be extended when the Oochain tahsil is partitioned. It has a present area of 114 square miles, of which only 54 or 74.5 per cent. are under cultivation. Of the khalsa area—106 square miles—49 per cent. is under cultivation, 34 per cent. is culturable, 3.5 per cent. new fallow, and 13.5 per cent. unculturable; so that although cultivation has expanded enormously since last settlement there is still an ample margin for further extension. Of the cultivated area 16 per cent. is chahi, 2 per cent. chahi-sairaba, 19 per cent. sairaba, 1 per cent. khatili, and 62 per cent. is dependent solely on the rainfall, viz., 52 per cent. barani and 10 per cent. bhur. Owing to the deficient rains of late years, and the neglect of the numerous irrigation bands, the maintenance of which is essential to ensure a good water supply in the wells, the chahi area has steadily contracted of late years and is now much less than it was at last settlement. 80 per cent. of the wells are sweet, and 20 per cent. bitter, brackish or oily, these being generally found in the villages of the central plain.

The tahsil slopes from the Sidgirpahar range on the south boundary

(b) Natural divisions.

due north to the Gambhir, and up to

the Ajan band in Bharatpur. It falls
into three well-defined natural divisions, viz., (1) the Wal or south-western
portion lying in the triangle between Rupbas town and the two ranges of
hills with 28 villages; (2) the Dher or central and eastern portion intersected
by the Khari nadi from the Singhani band in Biyana with 26 villages; and (3)
the Nadwas or northern portion intersected by the Gambhir and the old channels of the Banganga with 24 villages.

The Wal as its name implies is the valley at the foot of or between the These are low barren rocks with hills. (1) The Wal. no vegetation. Hence no sand is washed down from their slopes by the rain, and there is hardly any light bhur in this tract. The soil generally is a stiff blackish clay locally known as chahar, usually fortile and productive with abundant rainfall, but in places it has an admixture of kallar, and hence is not suitable for rabi barani crops—gram or sarson. Jawar does very well in good seasons, in the central plain around Rupbas. Bajra is grown with most success in the lighter soils under the hills. water is generally sweet, but the supply is now very low, and great numbers of wells have been temporarily abandoned. One reason for this is that a layer of stone is often met with at a depth of 10 to 30 feet from the surface, and this prevents the surface drainage from soaking into the soil and raising the spring level. Another cause is that nearly every village in this tract has its own band, which impounds the drainage from the hills on both sides and the large areas of waste, the filling of which is almost essential for the maintenance of the water-supply in the wells. These bands have gone out of repair or owing to the drought have not filled well in recent years, and this at once reacts on the wells. The spring level ranges from 37 to 60 feet, the average being for masonry wells 42 feet and for kacna wells 28 feet, while the average depth of water is 9 and 6 feet respectively. The restoration and improvement of these bands was taken in hand this year by the Executive Engineer, and most of them will have been completed in time to catch the monsoon rains.

The tract is also intersected by the Khor nadi from Biyana, which however flows between deep banks and does not inundate here. Dams have been thrown across it at Bansi and Kherli, where some excellent sairaba has been formed Dhana, Jatwansi, etc. The owners of the tract were originally Panwar Rajputs, who still hold 5 or 6 villages around Bansi Paharpur, but they have been dispossessed from the rest by Jats. The people have been severely hit by the drought of recent years, which is most felt in the stiff clay soils, but owing to the carelessness of the tahsil authorities have got into the habit of holding back the revenue even when they are in a position to pay it. If the restoration of the village bands is followed by a year or two of good rainfall, the tract will speedily recover its lost prosperity.

The Nadwas on the north of the tahsil with 24 villages is so named because it is affected by the action of the combined Banganga and Gambhir streams (nadi) which run right through it from west to east and benefit nearly all the villages directly or indirectly. A range of low hills starts from the river at. Bokoli and runs close to it for some distance. Through openings in this channels have been cut as already stated at Bokoli and Dahnagaon, to convey the floods into the central plain around Rupbas. Hitherto these have not been very successful as the floods, owing possibly to the damming of the Kakund, have not of recent years risen high enough, but they are now being cleared and deepened.

The proportion of sairaba in these villages is considerable. The soil, owing to sand deposits, is light in texture but very productive even with a moderate rainfall. Even the land classed as bhur yields excellent crops of bajra and til in the kharif, and the rents are as high as for the best barani. One estate—Khera—on the road between Rupbas and Fatehpur-Sikri is isolated from the rest, and forms an enclave in Agra. A few villages on the extreme north lie on both sides of the Ajan band (for which see report on the central tahsils) and are irrigated by means of it. Water is near the surface and fairly abundant, the average being 16 feet to the water-level and 14 feet of water in masonry wells, and 14 and 9 feet respectively in kacha wells. In Burana, Posonda and a few more villages on the north boundary adjoining Agra it is bitter; but elsewhere sweet. There is much excellent khatili cultivation in the bed of the Banganga, and on its banks a large area of sandy but culturable waste, which is being steadily brought under the plough. This tract is on the whole fairly prosperous even at the present time.

The Dher with 26 estates comprises the central and eastern portion of the tahsil projecting into the Agra (3) The Dher. The southern portion along the district. hills is similar in character to the Wal, while the northern portion along the banks of the Banganga is similar to the Nadwas. Between the two runs the Khar nadi which at Singholi approaches close to and receives the overflow from the Gambhir. Both before and after this point its inundations spread over a large portion of the tract and being regulated by a series of bands-almost every village has one or more-its action is most beneficial, and large areas of excellent rabi crops are grown on the inundated land. soil varies from a light loam to a stiff clay and there is much culturable land. Stone is very near the surface in places, and this is a bar to the extension of well irrigation. Water is generally sweet and near the surface, the average being 22 feet to the water and 12 feet of water in masonry wells, and 18 and 9 feet respectively in kacha wells. The latter are very numerous. In some places, e g., Singholi, the water collected in abandoned quarries is utilised for irrigation by means of jhalars. This tract though now rather depressed is better off than the Wal-the bands being in better order and the water-supply more abundant—and has many elements of prosperity.

The tahsil enjoys a fair rainfall, the average for the last 14 years being

(c) Rainfall.

23.68 inches, but of this only 1.45 inches
falls in the 6 months October to March,
and even this is very uncertain; consequently barani crops are little grown
in the rabi. In five years the rainfall has fallen short of 20 inches, while
in two it has exceeded 30, the extremes being 33.18 in 1891-92 and 10.35 in
1896-97. Owing to the natural slopes of the country especially in the Wal the
rainfall unless held up by bands or small field-embankments has a tendency
to run off into the Banganga.

Rupbas, the centre and headquarters of the tashil, is only 18 miles distant (d) Communications.

tant in a direct line from the railway at Bharatpur, but there is no direct route and cart traffic has to go round by Fattehpur-Sikri, which increases the distance to 24 miles. Even this route is often impracticable in the rains, most of the way being through a low-lying swampy country. The nearest and most popular outlet for traffic is to Fattehpur-Sikri and thence by metalled road

to the railway station at Achnera in Agra, which is distant only 16 miles from Rupbas. A good fair-weather unmetalled road for the traffic from the Bansi-Paharpur stone-quarries to Bharatpur has recently been constructed by the Executive Engineer, but this is not practicable for heavy traffic during the rainy months. Another unmetalled road much used for cross-traffic is that from Fatehpur-Sikri to Biyana which passes through Khanwa in this tahsil.

Rajputs, Jats, Brahmins, Gujars and Musalmans are in order the largest land-owning tribes. The first named are here as elsewhere indifferent agriculturists and bad revenue-payers, but they hold about one-third of the area and cultivation. The other tribes are of average industry. The tahsil as a whole in spite of the extraordinary increase of cultivation since 1890 (nearly 60 per cent.), has been going down-hill since the drought which began in 1895-96, and has continued with one year's break ever since. The contraction of the water-supply in the wells and the failure of the bands are the chief causes of the deterioration, but these are only temporary influences which will be removed by one or two years' good rainfall.

OOCHAIN.

16. Oochain is the only tahsil in the State which does not touch foreign (a) General description and soils.

territory. It has a total area of 146 square miles, of which 90 square miles or 61.5 per cent. are under cultivation. Of the khalsa area 61 per cent. is under cultivation, 9 per cent. (including State property) is unculturable, 3.5 per cent. is fallow and 26.5 per cent. is culturable. Thus although cultivation has increased by 20 per cent. since last settlement, the margin of and still available for cultivation is 30 per cent. of the whole. A good deal of this is the dense jungle formed by the Banganga inundations, which will cost much labour and money to reclaim, but there is also a large area of clear level land which will be at once broken up on the advent of more favourable seasons. Of the cultivated area 20 per cent. is chahi, 6 per cent. chahi-sairaba, 38 per cent. sairaba—regularly or occasionally inundated, 34 per cent. ordinary barani and only 2 per cent. bhur. The latter is found in small quantities along the banks of the Banganga, but chiefly at the foot of the hills separating Rudawal from Rupbas.

The tahsil like Rupbas falls into 3 well-defined natural divisions—(1)

(b) Natural divisions. the Jatmai with 32 estates in the broad plain on the north-west, (2) the Nadwas in the centre on both sides of the Banganga and Gambhir with 36 villages, and (3) the Rudawal pargana which was formerly a separate tahsil on the south and east with 28 villages.

The Jatmai, so called because the estates are owned chiefly by Jats, is the tract lying north of the Banganga and (1) The Jatmai. west of the Bharatpur-Oochain-Biyana road. The villages have a good clean level soil, but the well-water especially on the north towards the Bharatpur-Jaipur metalled road is often very bitter. Hence cotton is hardly grown at all on the wells, and though there is an ample water-supply the rabi crop too unless aided by rain is poor. Some improvement has, however, been affected on this side by the Haleyna canal from the Banganga, the spill from which fertilises the soil and aids the wells. average depth of wells is 22 feet to water and 13 feet of water for masonry wells, and 18 and 10 feet for kacha wells. On the south several villages, viz., Mai, Nangla Mai, Alipur, Atari, Jahangirpur, Atari, etc., are benefitted by the inundations from the old or present channels of the Banganga. These have a light soil like the Nadwas in which bajra and til thrive in the kharif, while gram, etc., is sown in the inundated lands. There are few bands in this tract, but it will be much benefitted by the extension of the Haleyna canal. This tract as might be expected has suffered severely from the recent drought, but the villages are generally strong communities and only want a few good seasons to recover.

The Nadwas is similar in character to the tract of the same name in Rupbas. Nearly all the villages are (2) The Nadwas. (2) The Nadwas. affected by the annual floods of the Banganga and Gambhir, either receiving the natural flow by inundation which in some places has sanded over the cultivation and choked the wells close to the river, or regularly irrigated by the canals along the Biyana-Oochain-Bharatpur road which distribute the floods by means of regulators into a series of retaining bands, of which the chief are the Nekpur-Kanwasi and the Churari-Mirki bands. The junction of the old Banganga channel and the Gambhir is at Karka in this tract. East of this point the annual floods are now much reduced as the Banganga is exhausted by the numerous natural or artificial channels to the west, and the Gambhir floods are less than they used to be before the Kakund was dammed. Hence Oochain villages east of Karka are now rarely inundated. The wells have in consequence suffered, and the revenue has fallen into arrears, as the sairaba The soil close to the river is light land has now become high and dry barani. and sandy, but very suitable for kharif barani crops. Further north towards Bharatpur it is stiff clay and the water is generally bitter, e.g., in Churari Gujar, gotoli, Bara, Karka, etc. Water in this tract is very near the surface, the average depth being only 13 feet, while the depth of water is 20 feet. the inundations are regular the wells are little worked except in years of drought or when the winter rains fail, and then kacha wells are sunk in great numbers. The villages of this tract round Oochain have the best sairaba cultivation in the State, and even in this year's drought the rabi crops were

(3) Rudawal pargana on the south and east was formerly the most flourishing tract in the tahsil with a good clay soil—except for the bhur close to the hills on the south and east—wells numerous and sweet, and very advanced cultivation including a considerable area under sugarcane. The physical characteristics are similar to those of the adjoining Wal tract in Rupbas, and this tract has similarly suffered from the diminution of the water in the wells and the breaching of the bands at Khera, Rudawal, Sirond, Churari, etc. The prosperity of this tract is largely dependent on the village bands being kept in good repair and being regularly filled, and they are now being restored and improved. Four estates on the extreme south-west, viz., Bhawanpura, Joreta, Dumariya, and Rudawal, have this year had over 3,000 bighas irrigated from one of the canals from the Bareta band, and this irrigation when fully developed will help to restore the prosperity of this tract. The water level is about 26 feet and the depth of water 10 to 12 feet.

excellent.

The average annual rainfall is almost the same as at Rupbas, viz., 24·15

(c) Rainfall.

(d) Rainfall.

(e) Rainfall.

(e) Rainfall.

(e) Rainfall.

(f) Rainfall.

(f) Rainfall.

(h) Rainfall is almost the same as at Rupbas, viz., 24·15

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(h) Rainfall.

(h) Rainfall

The present Jama is now very uneven. While it falls lightly on several of the canal-irrigated villages, it has become oppressive in several villages on the east which no longer receive the Banganga inundations. Moreover this inequality has been accentuated by a very bad distribution of the revenue instalments. When the present assessment was fixed the rabi was the chief crop in these villages, and the rabi instalment was fixed proportionately high. These villages now grow chiefly Kharif crops and discharge the kharif demand in full, but when called on for the rabi demand point to the fact that they have little or no rabi crops. A proper revenue administration would have met the difficulty long ago

by altering the instalments to agree with the relative importance of the harvest. But this simple remedy has been overlooked, and till last year the consequence was much larger arrears than were justified by the combined results of both harvests.

The tahsil is well served in the way of communications. An excellent metalled road connects the tahsil head-quarters with Sewar and Bharatpur, 7 and 11 miles distant respectively. There is a good unmetalled road from Oochain to Biyana, but this is often rendered impassable in the rain's by Banganga inundations. The Rudawal pargana is not so well off, as the Gambhir and Banganga come between it and the railway at Bharatpur; but the road recently constructed from the Paharpur quarries to the capital has improved things somewhat. Rudawal itself is only 20 miles from the railway.

The agricultural population consists mainly of Jats, 30 estates, Sinsinwar Jats 12, Gujars 18½, Brahmins 14 and Rajputs 6. So that the industrious classes predominate. The two estates shown as State property are the town of Oochain which has no khalsa land attached to it and the State Rund of Karka. Having regard to the extension of cultivation and the development of irrigation the present jama cannot be considered high. It is however very unequal. Some villages with a large sairaba area are very lightly assessed and have benefitted enormously by the high prices of recent years, while others have given up struggling to pay an oppressive demand and were content to come under direct management or to accumulate arrears.

BIYANA.

of 313 square miles, of which only 101 or less than one-third are under cultivation.

About 150 square miles or 48 per cent. of the area is unculturable, of which hills occupy 100 square miles. Of the khalsa area 30 per cent. is under cultivation, 52 per cent. unculturable, 2 per cent. recent fallow and 16 per cent. culturable. Much of the so-called culturable is however very inferior, uneven, stony or sandy land in the Dang or Nahera, and this is the reason why the expansion of cultivation has been much less than in other tahsils, being only 5.5 per cent. since last settlement. The unculturable land offers at certain seasons excellent grazing to sheep, goats and even big cattle, of which the Gujars of the Dang and Nahera keep very large herds.

Of the cultivated area 31 per cent. is chahi—a higher proportion than in any tahsil except Bharatpur—2 per cent. chahi-sairaba, 13 per cent. sairaba, 44 per cent. ordinary barani and 10 per cent. bhur. The area of bhur in the barani cultivation is rather under-estimated and much of even the chahi land in the Nahera belongs to this class. The bhur of the Nahera and Dang is generally of a very inferior kind and grows only the poorest kharif crops.

As already explained there are three great natural divisions in this tahsil—(1) the Kather or northern portion with 92 villages—the richest and most highly cultivated in the tahsil; (2) the Nahera or uneven sandy and rocky ground lying south-west of Biyana town up to the Bhusawar and Jaipur boundary and traversed by the Gambhir, with 45 villages; (3) the Dang embracing all the rocky hills and the intermediate valleys lying to the south of the Bareta band and running into the tracts of the same name in Dholpur and Karaoli. This has 31 villages, of which 8 on the high plateau to the south which slopes towards and drain into Agra are known as the Upper Dang, and the remaining 23 in the valley of the Kakund lying between the two chains of hills referred to in para. 12 are included in the Lower Dang.

Except for a low narrow ridge of hills which penetrates from Weir on the west and run due cast almost parallel to the Banganga for a distance of 6 miles with an opening at Agaoli through which the Banganga spill formerly passed into the Gambhir (see para. 7), the Kather is all a level plain sloping gently to the north-east. It is traversed from west to east by the main

channel of the Banganga which enters this tahsil from Bhusawar at Barkhera and deserting the old channel due east past Farsu breaks out north towards Oochain. The Gambhir from the south runs almost due north dividing the tract almost equally, and then taking a sharp turn east joins the old channel of the Banganga at Karka in Oochain. To the influence of these two streams the tract owes its large area of excellent sairaba and khatili land, and indirectly its unequalled chahi cultivation. The action of the Banganga has however in the pastbeen very capricious, the frequent changes in its channel having all but ruined several villages by sanding over the cultivation, choking up, or carrying away the wells, flooding the village sites and transforming rich expanses of cultivation into sandy wastes. The deterioration is found chiefly in villages close to the old channel, e.g., Farsu, Barkhera, Rundhera, while villages further to the north and south have benefitted enormously by the fertilising influence of the floods, which deposit the sterilising sand soon after they leave the channel. khatili cultivation in the bed of the Banganga is poor owing to the excessive amount of sand, while that of the Gambhir is excellent. The Gambhir also remains in flow longer than the Banganga, and there is some irrigation from jhalars on its banks. The Kakund or such portion of it as escapes from the Bareta band traverses the eastern portion of the tract. Up to its junction with the Gambhir at Naddigaon it is in more or less intermittent flow throughout the year and has some very good crops in its bed, while the villages along the banks irrigate from it by means of jhalars and dhenklis. Almost parallel with the Banganga runs the Jogi Nadi from Bhusawar on the west. receives the drainage of the hills on both sides, has a deep but narrow channel. and is a considerable torrent in the rains. Its overflow joined by the Banganga spill to the south forms a considerable swamp at Agaoli and Jhilka Bara on the Occhain-Biyana road and is very beneficial to the villages lying east of the road. It finally joins the Gambhir near Karka in Oochain. The large band at Khatnauli where it enters the tahsil on the west is now being renewed to hold up and distribute the waters of this torrent, and the Richoli band on the east has also been restored. The southern portion of the Kather is fringed by more or less continuous hills, the drainage from which runs into the Gambhir and to intercept this there is a considerable series of bands which play an important part in the local agriculture. Many of these have been restored and extended by the State in recent years, and the rest were vigorously taken in hand this year, and will be completed before the rains.

The soil of this tract in the northern villages adjoining the Banganga is often light though productive and on the south towards the hills is frequently sandy or stony and uneven as in the adjoining Dang and Nahera tracts. In the centre and especially in the villages lying west of the Biyana road it is a firm and level loam, suitable for the growth of all the ordinary crops. In some of these, however, e.g., Salabad, part of Naoli, Nangla-Purohit, etc., the water is bitter and in places too the soil shows traces of kallar. Seven-eighths of the wells are, however, sweet. Water is found at an average depth of 24 feet and except in the villages running west from Biyana under the hills towards Bhusawar—where the bands had fallen out of order, but are now being repaired—and is generally abundant. The average depth is 19 feet in masonry and 10 in kacha wells.

The owners in the Kather are generally Jats and Dhakars—who are first class, Gujars who are fair agriculturists, and Gaddis said to be the descendants of Punjabi Khatris converted to Islam in Aurangzeb's time—who are quarrelsome and slovenly and prefer to make a living by working in railway workshops, etc., than by tilling the soil Though owing to the changes wrought by the Banganga some villages are still much depressed and rather over assessed, the tract as a whole is prosperous and steadily developing. Several villages on the east side are now irrigated from the Bareta band, and the irrigation will soon extend right up to the Gambhir. Some sugarcane and a good deal of maize is grown. Cotton is a favourite and successful crop and the dofasti area on the wells is considerable. In the present famine the tract showed hardly any signs of distress and the revenue was realised almost in full.

The Nahera with 45 estates is the tract lying south-west of Biyana, the south eastern boundary being the range of hills which forms the western boundary of the Dang plateau, while the northern boundary is formed by the broad

irregular range running west from Biyana town to Ballabgarh in Bhusawar. Between the two runs the Gambhir in a north-easterly direction and the drainage from the hills on both sides has cut up the soft sandy soil with a network of nalas or ravines, which formed an excellent ambush or hiding place in the past to the lawless and predatory Gujars, and still enable several outlaws to defy the law. All the best cultivation, viz., most of the chahi, the sairaba, and khatili, is to be found in the bed or on the banks of the Gambhir, and of its three large tributaries, the Talra and Gaddi Khor nalas from the north and the Raseri nala from the south. The intervening tracts are generally high sandy uplands often covered with dense jungle and known as bihar. In this some precarious cultivation is carried on in the kharif, and wells are occasionally to be found, but the water-supply away from the streams is poor and bad.

The only exceptions to this are the three fine villages of Khareri, Bagrain and Khankhera under the hills on the west which have an excellent soil fertilised by the hill-drainage, numerous wells with good water, and grow large areas of betel-nut. These with the two large villages of Secundra (where opium is grown) and Shergarh close to Biyana are the most prosperous in the tract. The nature of the country is a bar to the construction of irrigation dams. There are only two—at Secundra and Bagrain—and these are of little use.

The water level varies enormously from the low lands to the uplands, but the average is 41 feet, while the average depth of water is 12 feet in pakka and 7 in kacha wells. The latter are very common all over the tract. The supply is now low owing to the drought, and in consequence a good deal of zira is sown in chahi lands in the rabi. Henna (mehndi) is also grown as a mixed erop in some villages near Biyana. The owners are chiefly Gujars, rather a wild and lawless lot, but amenable enough if treated with sympathy and consideration. They are fair cultivators, and as the area of pasture is very large make considerable profits from their large herds of cattle.

The Dang differs from the Nahera in the fact that it is a plateau among rocky hills, in which stone rather (3) The Dang Upper and Lower. than sand predominates. These features are most marked in the Upper Dang, a quadrilateral jutting out south and bounded on the west by Karaoli, on the south by Dholpur, and on the east by Agra into which it drains. It has 8 villages with enormous areas owned ex-The surface is uneven and stony, and cultivation is limited clusively by Gujars. to the low lands in the beds of the numerous nalas or ravines. Wells are very numerous and cost little as they are made of rough undressed stone without cement, but the water-supply is very poor and the area irrigated very small. In last year's drought many of the wells dried up completely and the population had to migrate in search of water. The evil has been aggravated by the neglect of the irrigation bands in the three villages of Kani, Ooncha, and Funds did not allow of their restoration being taken in hand this year, but the Executive Engineer hopes to undertake the work next cold weather. In ordinary years there is abundance of grazing, and the Gujars make large profits from the sale of ghi, wool, etc., the proceeds of which are generally set apart by their thrifty house-wives for payment of the State revenue.

The Lower Dang with 23 villages is the rocky plateau drained by the Kakund and extending from the Upper Dang to the Bareta band and the well-marked ridge of hills separating it from the Nahera. The soil is generally stony but in places sandy. The 11 villages on the western side benefit by the Bareta band which submerges much of the area in the kharif, but enables excellent rabi crops to be raised as the water dries up, and also raises the water-level in the wells. This is not however without its drawbacks, as kacha wells which formerly lasted 10 to 15 years now collapse after a year or two. Some of these villages have hitherto lost more than they have gained by the construction of the band, but the nalas and ravines are being filled up by the annual deposits, and if the water is run off in time to enable them to cultivate

a considerable portion of the area all will benefit in the long run. The 12 villages on the east and north remote from the influence of the band have large areas of bihar or uneven jungle and are much cut up by deep nalas running into the Kakund. These like the Upper Dang have suffered considerably from the drought as the wells have run dry and they are now much depressed. The average water-level is 33 feet, the average depth of water 11 feet. Besides the Bareta dam there is only one dam in this tract, viz., at Singhana on the extreme east through which the Khar nadi runs into Rupbas. This is under repair. There are other suitable sites, but they cannot be utilised without interfering with the supply of the Bareta work.

The Lower Dang too is owned almost exclusively by Gujars, a sturdy and manly lot, many of whom are in our native army. They have large herds of cattle, sheep, and goats, but in both the Dang and Nahera tigers and panthers often carry away the cattle, while other wild animals cause much injury to the crops.

The average annual rainfall at Biyana town since 1886 has been 26.83 inches, of which only 1.2 inches falls in the six cold weather months. The total is higher than for Oochain and Rupbas, and the head-quarters being surrounded by hills probably receives a heavier fall than the northern plains, I should be inclined to put the average for the whole tahsil at 25 inches. In two years of the fourteen the amount has exceeded 30 inches, while in four it has been less than 20. In 1896-97 and 1897-98 only 8.31 and 10.40 inches respectively were registered; but in the last three years the fall has been almost normal, though here as elsewhere the rainfall of the past two years has been very badly distributed as the September rains and the winter rains were practically nil.

Biyana town is 26 miles from the nearest railway station at Bharatpur viā

Oochain, with which it is connected by a good unmetalled fair-weather road. As the road crosses the valleys of the Gambhir and Banganga communications are often interrupted for days at a time in the rains. The Dang and Nahera tracts are even more remote, and from the nature of the country are very badly served in the way of communications and are almost impassable for carts. Pack animals are therefore chiefly used for heavy traffic.

The chief agricultural tribes have been already noticed. Over half the area and 90 out of 168 estates are held by Gujars, Brahmins with 19 estates, Jats with 12, and Sinsinwar Jats with 8 estates come next in order. Hindu Rajputs and Mahomedan Gaddis hold 8 estates each, Minas 6, Dhakars 5, Sheikh Saiyads, etc., 5, Mallis and Kachis 5, and other tribes 2. One estate is still kham, and one, viz., Fort Secundra which contains the ancient fort and buildings and has no cultivation, is State property. On the whole therefore the tahsil has a strong and fairly numerous agricultural population. Aided by the flourishing well and sairaba cultivation and the irrigation from the Bareta band it has held its own during the recent years of strain and difficulty.

BHUSAWAR.

18. Bhusawar is one of the largest and after Gopalgarh, which has now been broken up, the highest revenue-paying tahsil in the State. The Jaipur State runs all along the west boundary. The tahsil comprises the parganas of (1) Bhusawar; (2) Weir formerly the appanage of the descendants of Raja Partab Singh, younger brother of Suraj Mal, but resumed by the State in the last century; (3) the small pargana or jagir of Ballabgarh on the extreme south with 13 estates which was granted originally by Jaipur about 1721 A.D. to Chaudhri Ratti Ram, the Jat Sirdar of Ballabgarh, and was maintained to his descendants by the Bharatpur Rajas on condition of military service. It was temporarily taken over by the late Maharaja in 1880 in discharge of a debt. This jagir being for the present khalsa has been brought under assessment like other khalsa villages, but its assessment will be separately

shown to provide for the contingency of its being restored to the Jagirdar, Faujdar Debi Singh, Member of Council.

The total area is 234 square miles, of which 130 or 56 per cent. are under The khalsa area is 220 square miles, of which 54 per cent. is under cultivation, 23 per cent. is unculturable (viz., 12 per cent. or 27 square miles under hills, and 11 per cent. otherwise unculturable), 7 per cent. is recent fallow and 16 per cent. old banjar suitable for cultivation. Hence there is ample room for extending cultivation, but owing to various causes, which will subsequently appear, the increase since last settlement has been less than 3 per Much of the culturable is dense but rather sandy jungle along the banks of the Banganga, overgrown with high reeds, etc., the breaking up of which is Special arrangements have now been made to lease laborious and expensive. out this for cultivation on favourable terms. Part of the culturable land represents holdings abandoned by the old owners owing to drought or pressure of assessment which has gradually fallen out of cultivation. For this arrangements have now been made either by reinstating the old owners, or if they refuse, by allotting it to other agriculturists. Finally some of the culturable especially under the bills on the south is light sand soil barely worth the expense of cultivation.

Of the cultivated area 33 per cent. is chahi, 1 per cent. chahi-sairaba, 1 rer cent. khatili, 4 per cent. sairaba, 51 per cent. barani and 10 per cent. bhur. The bhur or inferior sandy soil is met with chiefly along the banks of the Banganga where sand has been deposited and also under the hills in the south of Bhusawar and Ballabgarh. In Weir there is very little even under the hills as these are composed of bare rocks.

Excepting the hilly portion on the south, all the rest lying north of a line from Bhusawar to Weir is a fairly level plain sloping gently to the north-east and crossed from west to east by the Banganga which has a course of 16 miles through this tahsil. The soil of this portion is generally a fairly good loam, wells are very numerous and well water is generally sweet though there are many villages close to the Banganga as well as at a distance from it, e.g., Chonkarwara, Kallan, Salimpur, Jahanpur, Bijwari, Kherli, Gujar, Bewar, etc., where the water is very bitter, cotton in consequence is not sown at all on the wells, and even after a rabi crop is raised the land has often to be left fallow for a year to get rid of the injurious effects of the saline water.

The southern or hilly portion of the tahsil has a lighter soil except in Weir. Water is generally sweet but far from the surface and owing to the drought of recent years now very low. In the whole tahsil about 80 per cent. of the wells are sweet and about 20 per cent. bitter, brackish or oily—the last kind being the most injurious for agriculture.

The tabsil naturally falls into four main sub-divisions—(1) the northern or Trans-Banganga with 42 estates, (2) the small Ballabgarh pargana with 13 estates on the extreme south, and between these two (3) the Bhusawar pargana on the west and (4) the Weir pargana on the east.

The estates north of the Banganga have a good clean level soil in which (1) North of the Banganga.

(a) North of the Banganga.

(b) North of the Banganga.

(changes into uneven sandy Bet land in which pula grows. Owing to the proximity of the stream the water level is near—26 feet for masonry and 23 in kocha wells—and the supply generally abundant—13 feet in masonry and 8 in kacha wells. The quality is, however, very variable and the prosperity of a village generally depends on whether its wells are sweet or bitter.

The Banganga here flows through fairly high beds and ordinarily inundates only 351 bighas in the two low-lying villages of Hatinjar and Nimatpur. As explained in paragraph 7 it is liable to burst through its banks in years of high flood, and in 1881 it broke out north at Khanpur on the extreme west and at Thilehahi close to Halevna and flooded all the country to

the north. The Pathena and Haleyna canals now take out from these points. The former is still under construction, but the latter has already irrigated a considerable area in Haleyna and the villages east of it on both sides of Bharatpur-Jaipur road which is used as a training work, and has also done much to improve the wells. There is no band in these northern villages, as there are no suitable sites, but they will benefit immensely by the extension of irrigation from the two canals mentioned. Owners are chiefly Jats, and as a rule men of more substance and energy than in the villages to the south.

The soil in the northern portion of the Bhusawar pargana is similar to that of the Trans-Banganga villages being a fairly good level loam, but it deteriorates as we go south towards the hills and becomes a yellowish mixture of hill sand and clay. This even where to the eye it appears stiff and firm is very inferior in productive power, and pala will not grow in it. Around Bhusawar itself is found a species of reddish bhur very light in texture which is particularly suitable for the growth of mango and mahua trees.

The local custom is that any one is at liberty to plant a mango tree even on another man's land, but in the latter case half the produce goes to the owner of the land, half to the owner of the tree. The encouragement thus given has led to about 8,000 mango trees being planted in and around Bhusawar. Some of these are 100 years old, and in the village of Ataonda there is a single tree the fruit of which sells annually for Rs. 50 to 100. The more valuable trees have their own special names. These trees were till lately taxed by the State in various ways. Up to A. D. 1882 the State took one-third of the produce. In 1883, the trees were grouped into four classes according to the estimated quantity and quality of the produce and (1) where the soil was not previously assessed a tax of from 3 annas to 12 annas per tree was imposed, (2) where the land was already assessed the tax varied from 9 pics to four annas per tree. The average income to the State from trees in khalsa lands (excluding trees and gardens owned by the State) was for the 5 years ending in 1894-95 Rs. 1,903 per annum. In 1896 when a number of miscellaneous taxes and imposts were remitted this tax on the mango trees was also abolished. This was I think a mistake. The land under these trees was either not assessed at all, or assessed very lightly at last settlement on the understanding that the tax on the trees would be maintained. The mango trees are a valuable property as will appear from the fact that 2954 trees are now held in mortgage for a total amount of Rs. 7,552 or Rs. 2-8-0 per tree. The State is entitled to a share of this produce, as it is entited to a share of the other-produce of the land, and in similar circumstances the British Government taxes date trees in Mooltan and the Derajat. I therefore propose that in the new assessment the produce of these trees be taken into account as part of the assets of the estates to which they belong, and included in the assessment which will show separately the amount charged on the land and on the mango trees. people will then be consulted as to whether the latter amount will be distributed over the land or maintained as a separate charge on the trees.

Wells are very numerous in this tract, but on the north between Bhusawar town and the Banganga where the soil is stiff the well water is very brackish in some 10 or 12 estates. The average water-level is 30 feet while the depth of water averages 5 feet in kacha and 10 in masonry wells. Towards the Banganga water is fairly plentiful, but on the south round Bhusawar there are general and well founded complaints of its inadequacy, and within the last two years great numbers of kacha wells have been sunk to make good the deficiency. Besides the deficient rains of late years another cause of the diminution of the supply is the damming of the Chohi torrent in Jaipur at Ghanna Garauli about 35 miles west of Bhusawar town. This stream, which in the rains used to bring down a great volume of water, enters the tahsil at Randhirgarh, flooded the low ground around Bhusawar, and after filling the bands of Garhi, Musapur, and Baroli, finally emptied itself into the great Ataripur band—4 miles long—on the north-east of the tract, whence the overflow in years of heavy rainfall run due east into

the Lalpur band north of Weir. Of recent years none of these bands has filled as the Chohi has never come down in heavy flood and hence the water-supply in the wells has been much reduced. An attempt has been made (see para. 7(e)) to supplement the deficiency by cutting a channel from the Banganga at Oohlu, 8 miles off to the Ataripur band, but this has never worked satisfactorily and a new channel from Mala Hera three miles further east is now being dug. Besides the bands mentioned there are several small bands in villages to the south of Bhusawar which hold up the rainfall from the hills. These have recently been repaired by the State, but have never yet filled properly, and the sairaba area in this pargana is at present small and of inferior quality. The owner in this tract are generally Jats, Brahmins, Dhakars and Gujars and are excellent cultivators. The Henna plant (mehndi) is grown in Bhusawar. The estates are very uneven as regards quality and prosperity. Those in which water is sweet and abundant are flourishing, while a large number owing to bitter wells, failure of water, etc, have broken down; and large areas have gone out of cultivation owing to the desertion of shareholders.

The Weir pargana on the east of the tahsil is a level plain on the north (3) Weir pargana.

• from Weir to the Banganga similar to the adjoining tract in Bhusawar. The portion lying south of Weir is very hilly and the four large estates of Jahaj, Hatori, Umrend and Tuhari are quite shut in by hills. The soil which is rather light towards the hills gets stiffer to the north, and as there is a rather sharp slope to the Banganga the local rainfall and the drainage from the hills runs off where not impounded by irrigation dams. Hence nearly every village in this tract has its band and some have more than one. The bands here as elsewhere had been much neglected during the reign of the late Maharaja to the great disadvantage of the land and the wells, but within the last three years the State has wisely laid out considerable sums in restoring them. The seasons have not, however, been favourable, and only a few, viz., those of Moroda, Khohri, Raniwala (Weir town), Kotha, and Rajgarh have filled well. The wells, which are generally sweet, are very low in many villages.

The greatest irrigation work in this tract is the Lalpur band subsidiary to which are the Jiwad, Bansi, Lohasa, Ajrond bands, all lying between Weir town and the Banganga. These are fed partly by the overflow from the Ataripur band in Bhusawar; but since this source has failed they derive their supply chiefly from a channel from the Banganga through Hasaonda. This has worked admirably and the best sairaba cultivation in the tabsil is to be found on these bands. A very large area within these bands and also inundated by the Banganga is at present dense jungle, much of it being State Runds. All of this, except 1,500 bighas retained for State uses has now been leased out for cultivation, and if irrigation can be provided will be speedily brought under the plough. On the extreme south of the tract the drainage of the mass of broken hills around Jahaj with a catchment of 12 square miles of rocky ground runs west towards Balabgarh, and was formerly held up by a masonry dam in Jahaj constructed in 1881 at a cost of Rs. 24,000. This burst in the first heavy rains thereby causing the breach of the Ballabgarh band a little further west, and since then all this valuable drainage has passed away uselessly to Jaipur. The restoration of the Ballabgarh band at the expense of the jagir has now been sanctioned.

As Bhusawar is famous for its mango groves so is Weir famous for its produce of the ber fruit or wild plum. The land under these gardens will in future as in the past be assessed as barani cultivation. Pala grows in profusion, and there is much culturable waste, but though the soil with careful handling would yield excellent barani crops, the agriculturists concentrate their industry chiefly on the wells and the barani is neglected.

This tract with a good soil, numerous wells and irrigation dams, was in former days—as the name implies—one of the richest tracts in the State. It is now suffering from a severe but temporary depression which will be removed by a year or two of good rainfall sufficient to replenish the wells and fill the bands. The chief proprietors are in order of industry and prosperity, Dhakars Gujars and Gaddis.

The small Ballabgarh pargana on the extreme south is at present the most prosperous and highly cultivated portion of (4) Ballabgarh pargana. the tahsil. All the villages but one-Nithari—are in the jagir of Faujdar Debi Singh, member of the State Council, whose claim to recover possession from the State (see para. 4) is pending before the Political Agent. The zamindars are Jats and Minas, extremely industrious, and the chahi cultivation is very superior, water being sweet and the soil-a light reddish loam-very generous. Since the breaching of the Ballabgarh band the water level has sunk and the supply diminished—the average is now 39 feet to water level and 9 feet of water, -but the restoration of the band will improve matters. All the local drainage now runs off in deep nalas south-west into Jaipur. I may here note that the Jagirdar claimed full proprietary rights in all these estates, but after full enquiry it was found that the present village communities were in existence long before the grant of the jagir, the zamindars had freely exercised their right to sell and mortgage their lands to one another, and as the accepted tradition in the Bharatpur State is that a Jagirdar is entitled only to the revenue of the land, not to the land itself, I decided that the zamindars of all those estaces, except Ballabgarh and shares in a few villages which are admitted to be the hereditary property of the Jagirdar—held the same proprietary rights as in khalsa villages.

The rainfall of Bhusawar is practically the same as that of Biyana.

(c) Rainfall.

There are two registering stations, at Bhusawar and Weir. The average rainfall for the former is 25.69 and for the latter 26.34 inches. The average cold weather fall is 1.4 inches, but in five years out of the last fourteen it has fallen below half an inch. This is the chief reason why gram and oilseeds are so sparingly grown even where the land is eminently suited for them. The rainfall of the last 5 years has not only been very much below the average, viz., 19 inches against an average of 26, but has been very badly distributed, as in four out of the five years the September rains were less than an inch and the winter rains less than half an inch, and this, which has reacted on the wells and bands on which the agricultural prosperity of the tahsil mainly depends, is the chief cause of the present depression.

Bhusawar and Weir, the two chief towns in the tahsils are distant 16 and 14 miles respectively from the railway (d) Communications. station of Nadbai, and Bhusawar is only 12 miles distant from the Kherli station in Alwar. The Banganga however comes in between, and its broad sandy bed, and the large deposits of sand on each side of it are a serious obstacle to heavy traffic even in the dry weather, while in the rainy season traffic is often interrupted for days. The Agra-Jaipur metalled road which passes though Haleyna and runs close to Bhusawar intersects the tabsil transversely. This was formerly an important mail route and was then well maintained, but since the opening of the Rajputana-Malwa Railway it has lost its importance and is now maintained in a tolerable state only as far as Haleyna. The old Moghul highway from Agra to Jaipur also passed through this tahsil, and its course can still be traced by the milestones, signposts, and the remains of the mosques and rest-houses. A fair unmetalled road runs from Bhusawar to Weir and on to Biyana.

The agricultural tribes are in order of importance Jats who hold 65 (e) Agricultural population.

(e) Agricultural population.

(e) Agricultural population.

(e) Agricultural population.

(f) Agricultural population.

(g) Agricultural population.

possession of all or part of their ancestral lands, so that, given a few good seasons and a watchful and sympathetic revenue administration a speedy recovery may be anticitated.

19. Having described with perhaps needless prolixity the special features of each tahsil, I now return to the general description. The relative importance of the different classes of soil in each tahsil will appear from the following table, which shows the proportion of each class to the total cultivation (a) at last settlement, (b) in 1898-99, the year taken as the basis of the new assessment, and (c) for purpose of comparison in the year 1893-1900, which was however an abnormal one:—

***************************************						Спані,				Cnani-Sairada.				Sateaba.				I	LEANI,		
Taheil.			D	Hal.	Sabika	Temporary.	Total.	Bal,	Sabika,	Total,	Total chaht,	Khatili.	IIal.	Sabika.	Barishi.	Total.	Baranl	Bhur.	Total.	Grand total.	
,		{	1691-92	,.,	. 2	. 9		30				30		٠.,	, <u>,</u>	25	25	44	1	45	100
Rupbas	 .	}	1808-09	•••	. 6	0	2	16	2		2	18	1	6	13		19	53	10	63	100
· ·		{	1800-1900		. 1	4	3	15	4		4	19	1	10	9	•••	19	52	9	61	100
,		{	1891-93		30	7		37				37		•••	, ۰۰۰۰	8	18	45		45	100
Oochain	**1	}	1693-99		. 14	6		20	Б	1	6	26	•••	26	. 12		39	31	2	86	100
		l	1899-1900		. 1	4		10	10	1	11	30	1	18	13		31	35	3	83	100
•		ſ	1891-92		. 3	6		39				39			<u></u>) \	14	47		67	100
Biyana	***	}	1899-99		2	5	1	31	2		2	83		a	3	1	13	41	10	54	100
	٠	{	1699-1000		2	4	1	30	3	1	4	34	1	o	2	1	12	41	19	53	100
		ſ	1891-92		9	9		43				43		3	1		4	53		53	100
Bhusawar	***	{	1899-69	• • •	. 2	8 8		83	1		1	34	1	4			4	51	10	61	100
•		į	1509-1900	•••	. 2	8	1	33	2		2	33	•••	3	1		4	51	10	61	100

20. The classes of soil are the same as those described in para. 16 of Increase and decrease of the different chalipses. Increase and decrease of the different chalipses. In chalipses a chalipse and hal, i.e., land inundated from the Banganga or from bands as well as irrigated from wells, (2) chahisairaba sabika, i.e., land which has both sources of irrigation but received neither during the year. This latter class is of little practical use as in assessment it will be grouped with chahi sabika. The first class is however important in these tahsils and will be separately rated.

At last settlement the classification was not so elaborate as now, and does not show with any accuracy the details of the major classes—chahi, sairaba and barani. We must therefore be content to compare the totals under these major classes. Looked at in this light the figures show, (1) a considerable falling off not only in the proportion of chahi to total cultivation, but of the total chahi area as compared with last settlement in all four tabsils; (2) the sairaba area has actually increased in all tabsils but Biyana, where it is stationary; but if the areas of 1899-1900 be taken in Biyana, it shows a great increase and has increased relatively to the total cultivation in Biyana and Bhusawar; (3) the total barani area including bhur has increased enormously in Rupbas, fallen off slightly in Oochain—owing to the extension of sairaba—increased absolutely and relatively in Biyana and Bhusawar owing to the breaking up of new lands and the decrease in well irrigation.

21. The following table compares in detail the statistics of wells, chahi area, and area actually irrigated at last settlement and now:—

		Detail.			2	IASONRY	WELLS.			KACHA WELLS.		DHERS DHIN KLIS		CHAHI AREA.		
Tabsil.					ORKING DUBING YEAR.		Working in Botation.			ar.					in year.	
				Wells.		Wells.	Laos.	Total working.	Out of work.	Working in year.	In rotation.	Permanent.	Temporary.	Total.	Irrigated within year.	ly chinklis.
		1891-92		676	931			676	274	71	•••	1	•••	15,314	11,727	
Rupbas	{	1898-99	•••	G41	814	145	220	786	246	264	•••	2	25	14,559	9,642	27
	Į	1899-1900	•••	691	856	129	203	809	230	407	•••	2	82	16,318	12,622	60
	{	1591-92	•••	1,331	1,759	71	71	1,402	426	94	1	27	•••	87,953	30,299	
Oochain		1898-99	•••	1,174	1,555	266	390	1,440	420	92	14	13	41	31,951	23,928	52
	(1899-1900	•••	1,352	1,790	209	241	1,561	299	201	7	14	423	33,783	28,616	407
	1	1691-92	•••	1,933	2,541	•••	•11	1,933	317	788	1	5	•••	52,671	41,839	
Biyana		1898-99		1,776	2,549	106	128	1,892	361	614	47	. 24	24	46,880	39,001	50
		1899-1900	•••	1,856	2,318	93	106	1,954	298	725	57	25	465	48,666	41,434	450
		1891-92		2,098	2,757	32	101	2,130	451	417	21	3		79,578	63,349	
Bhusawar	•••	1893-99	•••	1,945	2,743	294	422	2,239	400	537	47	242	49	66,263	50,242	373
		1809-1900	•••													••

These figures show (1) that the total number of masonry wells at work has increased since last settlement in all tahsils, but the number actually working in the year had fallen off in 1898-99, but increased considerably in 1899-1900 owing to the stimulus of the drought, and for the same reasons the number of wells out of work shows a steady decrease in all tabsils since last settlement, (2) the drought also gave a considerable stimulus to the sinking of kacha wells which have increased considerably in all tabsils but Biyana, and (3) temporary dhers and dhenklis increased enormously in 1899-1900, having been sunk wherever possible to save the sairaba and khatili crops, (4) as regards the number of working wells all tabsils but Biyana are now better off than at last settlement, but owing to the diminution of the well supply the efficiency or irrigating power of these wells has been much reduced; so that (5) the total chahi area and the area actually irrigated within the year show a great falling off in 1898-99 as compared with last settlement, and although to remedy this and cope with the drought the number of working wells increased considerably in 1899-1900, the areas did not come up to the standard of last settlement except in Rupbas.

We are safe however in drawing the conclusion that given normal rainfall and ordinary years, the well irrigation will exceed rather than fall short of the figures of last settlement. The great increase in *kacha* wells in recent years in Rupbas, Oochain and Bhusawar is due to their having been sunk wherever possible to eke out the irrigation from masonry wells. The wells working in rotation, *i. e.*, in alternate years or out of work are generally brackish or bitter wells which cannot be worked regularly without injuring the soil. Hence they are relatively most numerous in Oochain.

22. This point will be more readily understood from the following table Classification of wells according to which classifies the wells of each tabsil according to the quality of the water and shows the area irrigated in 1898-99 from each class:—

					RUP	BAS.			0001	HAIN.			BIY	ANA.			BHUS	AWAR.																													
Class of wells.		Details.												i																		WELLS.		Снант.		WELLS.		Снапі.		WELLS.		Сп	AHI.	W,	ILE.	Cı	IAHI.
				Working.	Not working.	Hal.	Sabika,	Working.	Not working.	Hal,	Sabika,	Working.	Not working.	Hal.	Sabika,	Working.	Not working.	Hal.	Sabika.																												
Sweet	{	Masonry Kacha	···	496 207	1)2 	6,183 1,158	3,618	600	137 14	10,126 474	4,054 255	1,511 560	90 41	28,21i 4,877	5,635 1,268	1,411 493	220 45	82,940 4,913	1 '																												
	(Total		693	112	7,341	3,618	669	151	10,600	5,209	2,080	131	33,118	6,903	1,904	265	37,253	13,440																												
Oily	{{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{	Masonry Kacha				209	12 	8	2 	131 	60	47 16	1	1,012	271 30	102 5	22	2,253 79	791 9																												
	ł	Total		9	1	209	12	8	2	131	63	63	5	1,142	301	107	22	2,332	600																												
••···		Musonry Kacha												:	***	128 6	3	3,569 53	630 20																												
	Į	Total		•••												131	3	3,622	659																												
Brackish	. {	Masonry Kacha	: :	71		1,211 3	612	252 12	45 	5,426 195	1,439	116 14	2	2,510 144	232 25	81	15 	1,705 6	313																												
	\{	Total		71	7	1,247	612	264	45	5 621	1,439	130	2	2,655	257	83	15	1,711	313																												
Bitter		Masonry Kacha		75 27	25	817 128	575 	314 11	 	7,408 168	1,318	103 14	10 2	1,897 190	363 55	223 31	31	5,080 211	713 59																												
	ļ	Total		103	25	915	<i>675</i>	325	82	7,570	1,318	117	12	2,087	418	254	36	5,324	771																												
Total		Masonry Kacha Dhenklis		611 237 27	145 	8,453 1,289 27	4,817 	1,174 92 61	266 11	23,091 837 62	7,771 255 	1,777 613 48	106 47 	83,060 5,341 50	6,501 1,378	1,015 537 290	291 47	45,517 4,695 365	14,180 1,633 8																												
		GRAND TOTAL		905	145	9,769	4,917	1,320	250	23,980	8,026	2,439	153	39,051	7,670	2,772	311	50,607	16,022																												

Put in the form of percentages the result is-

	Detail.	Rupbas.	Occhain.	Biyana.	Bhusawar.
Sweet Oily Brackish Bitter	•••	 80 1 8	55 1 19 25	87 8 5	76 . 4 . 9 11

which shows that in Oochain nearly half the wells are oily, brackish, or bitter, and irrigation from them unless supplemented by rain is injurious to the land in the long run, while in the other tabils the proportion of such wells is one-fourth in Bhusawar, one-fifth in Rupbas and one-eighth in Biyana.

The large area of chahi-sabika shown opposite each class of well is due to several causes, of which the most obvious are (1) the insufficiency of the well water, (2) the necessity of growing a dry crop after an irrigated one on bitter wells so as to arrest deterioration, (3) the want of sufficient cattle, etc., to work the wells fully.

Double cropping and average area 23. Double cropping is generally confirming and per lao. fined to sweet wells on which if the water-supply is sufficient maize, cotton, and bajra in the kharif are followed by wheat, barley, or zira in the rabi.

The area so double cropped within the year of attestation was—

Rupbas	2,887	bighas	or 29	per cen
Oochain	4,254	11	18	,,
Biyana	14,070	23	36	"
Bhusawar	10,157	,	20	,,

The average area irrigated per lao or well-rope works out as follows for the different classes of wells:—

	Detail.			Rupbas.	Occhain.	Biyana.	Bhusawar.
Masonry wells	···	***	***	11	15	15	17
Kacha		•••	•••	4}	. 8	9	9

The average is fairly uniform except in Rupbas, where it has been much reduced by the failure of the wells in the Wal tract. A *dhenkli* on the average irrigates 1 to 1½ *bigha*.

Kinds of wells in use.

24. The classification of wells according to method of construction is as follows:—

	Detail.			Rupbas.	Oochain.	Biyana.	Bhusawar.
Masonry	•••	•••	•••	702	1,241	643	•••
Pathraura or loc	ise stone	•••	•••	329	199	1,239	
Kacha pakka	•••	•••		•••	***	283	•••
Kacha	•••	•••		264	106	377	***
		Total		1,295	1,546	2,542	**** ***

Masonry wells, i.e., in which a masonry cylinder is first constructed and sunk from above or which are built up from below, are most common in the open plains and in the area flooded by the Banganga. They are more expensive than the other forms, but last longer and usually have a better water-supply as they tap the spring level.

The pathraura wells made of loose stone generally undressed and without mortar or cement, are found in the stony lands under the hills, are very common in the Wal of Rupbas and almost universal in the Dang of Biyana. They cost comparatively little, but dry up quickly in a drought as they often depend for their supply on the percolation of the surface drainage and do not tap the spring-level. Kacha-pakka wells are most common in the Nahera of Biyana where the water level is very deep, and to ensure greater stability from 10 to 20 feet at the mouth of the well is lined with masonry.

Kacha wells are most common in Biyana and Bhusawar. They generally require a firm subsoil. Their increase in recent years is due to the necessity of supplementing the failing supply in masonry wells.

Takavi advances. 25. The following table shows the amount of takavi advanced by the State for wells and other purposes and the number of wells constructed:—

				ADVANC	ED BEFO	RE 1890.	 	ΔD	ATMCRD	SINCE 18	90.		Nun	BB OF	Wells
							For bu	llocks an	d seed.		For wells				tion.
Tabell,				Adranced.	Realised,	Balanco.	Advanced.	Realised.	Balance.	Advanced.	Realised.	Balance.	Newly made.	Repaired.	Vader construction.
Rupbas	***	•••	•••	4,422	3,971	551	18,700	17,195	1,515	7,709	6,031	1,678	37	7	
Oochain	***	•••	•••	6,931	4,827	2,001	35,458	31,837	631	11,740	11,019	721	29	9	l
Biyana	•••	***	•••	65,791	65,025	10,766	25,602	22,727	2,875	10,649	8,315	2,534	33	26	8
Bhusawar	***	***	***	0,967	6,550	417	13,391	13,115	279	15,245	14,321	924	62	23	7
		Total		81,011	70,273	13,738	93,154	87,654	5,300	45,313	39,686	5,657	151	65	10

The advances in these tahsils since 1890 have been far more liberal than in the Central or Northern tahsils. Over Rs. 90,000 have been advanced in the four tahsils for seed and bullocks, and over Rs. 45,000 for construction or repair of wells with which no less than 151 new wells have been sunk, 65 have been repaired, and 10 are under construction.

In para. 13 of last year's report I indicated the lines on which the takavi system should be worked. The necessity of having a liberal but well-supervised system in these tahsils is all the greater, as in all tahsils but Rupbas half or more of the revenue demand is paid by the wells.

26. The leading feature of natural and artificial irrigation from Banganga and Gambhir floods and irrigation dams Sairaba cultivation and bands. have been described in the remarks on the different tahsils. During the reign of Maharaja Balwant Singh, i.e., between 1825 and 1853, nearly all the existing irrigation works in this as in the other parts of the State were carried out. These were efficiently worked and added to by Lieut. Home, R. E., between 1862 and 1867 during the minority of the late Maharaja. On his accession this important branch of the administration was neglected, and works in progress such as the Bareta band were abruptly stopped. The result was that the bands fell into ruin or disrepair, thus causing a steady deterioration in sairaba cultivation and in agriculture generally during his reign. On the reorganisation of the State administration under the Political Agent in 1895 the improvement of the irrigation system was at once taken in hand, and since then it has been pursued with unremitting energy and zeal by the Executive Engineer Mr. J. A. Devenish with the best results to the people and the State. As a single instance of the many direct results achieved I need only refer to what has been done to control the Banganga floods (para. 7) which from being the curse of these tahsils have now become the mainstay of their agricultural prosperity; and as an example of the indirect benefits I may quote the fact that in the severe scarcity of 1896-1897 and the recent famine the State was able to entrust the

entire organisation of the famine labour to the Public Works Department which was in a position to profitably employ it for the most part on the construction or repair of the irrigation dams. A detailed list of the principal works in these tahsils will be separately printed. When those now in hand are completed, much will have been done towards the improvement and security of agriculture in the tract.

- 27. The main facts as to the rainfall have been stated under each tahsil and barani cultivation.

 Rainfall and barani cultivation.

 A. The average for the tract may be taken as 25 inches in the year, which if well distributed is sufficient to secure both crops. Unfortunately we are passing through a cycle of years, beginning with 1895-96, in which the rainfall has been not only very deficient—the average fall for the last 5 years being only 19 inches—but very badly distributed. In three years out of the five both the September and the winter rains have practically failed, thereby much reducing the outturn of the autumn crop and causing a general failure of the non-irrigated spring crops.
- 28. The tract as a whole though not in direct contact with the railway is not remote or isolated, the headquarters Communications, trees, climate, etc. of the various tahsils being within from For internal communications all tahsils 11 to 25 miles from a railway station. but Oochain are dependent on fair-weather roads and are liable to considerable interruption of traffic in the rains when the Banganga and Gambhir are in flood. The portion of the tract lying north of Banganga is generally bare of trees; south of the river vegetation is more luxuriant. The plains of Bhusawar and Biyana abound in fruit-trees, viz., the mango, the mahua from the flower of which liquor is distilled, the ber or wild plum. The hills in the Dang and the low broken ground along the banks of the streams and nalas in the Nahera are covered with a dense growth of brushwood and provide abundant grazing Betel-leaf is successfully cultivated in some villages of for sheep and goats. Bhusawar and Biyana.

The climate is generally better than that of the northern or central tahsils, as water-logging is not so common, owing to the lighter texture of the soil, and the drinking water is generally excellent. Some of the villages on the east of Oochain which have a low-lying alluvial clay soil and are annually inundated are however very subject to malarial fever.

CHAPTER II.

FISCAL HISTORY.

29. The rise of the Bharatpur State has been described in Chapter II of my previous reports. The early history Early history of Biyana. of this tract centres round Biyana, which nature and art combined to form into one of the most famous strongholds in India even in the days of Hindu dominion. During the invasion of Mahmud of Ghazni in the 11th century a Jadu Rajput Bijey Pal ruled in Biyana, and his conduct in endeavouring to forcibly secure a Mohamedan girl is said to have led to Biyana being stormed and captured in 1031 A.-D., by Mahsud Salar nephew of the Sultan. Bijey Pal was killed in battle, but the fort is said to have been soon after recovered by the Rajputs. At all events it was again stormed successfully by the famons Abu Bakar Kandhari in A. D. 1047. was killed fighting, and his tomb is still pointed out close to Biyana. Thenceforward Biyana seems to have been held by whatever dynasty ruled in At the end of the fifteenth century the local Governor rebelled against Secunder Lodi, who after capturing Biyana founded a new city at Secundra, a few miles to the south, the ruins of which are still to be seen. This city was

like Biyana at the foot of the hills and covered the entrance to the mighty fort or series of forts which crown the crests and have even now a circumference of 7 miles. Successive conquerors, Hindu and Musalman, had devoted their energies to the strengthening of this splendid natural stronghold and it is now a curious medley of Hindu and Mahomedan relics which would well repay antiquarian research.

Babar writing in 1526 describes Biyana as one of the most famous forts in India. The combined Rajput forces advancing northwards to encounter the Moghul invaders expelled the garrison left by Babar and took possession of the fort, and it was 20 miles to the north-east at Khanwa in Rupbas that Babar put a seal to his conquests and hopelessly shattered the last attempt of the great Rajput confederacy to recover the empire of Hindustan by a complete victory over the Rajput forces under Raja Sanga of Meywar. This victory is known commonly as that of Fatehpur Sikri, which place is however about 10 miles distant from the battle-field. His son Humayun wrested the fort of Biyana from the Lodis in 1535, and from that date to the rise of the Jat power it was held by the Moghuls.

- 30. Owing to its vicinity to Fattehpur Sikri and Agra which are only History under Moghul rule.

 10 and 30 miles distant from Rupbas, this tract had a close connection with the Moghul Emperors. The fine palace and tank at Rupbas were constructed in Akbar's time by Mian Rup, a Rajput convert to Islam and a favourite of the Emperor who used frequently to visit Rupbas on hunting expeditions. The finest specimens of Moghul architecture at Agra, Dehli, and Fattehpur Sikriwere built of the famous white and red sandstone of Rupbas.
- 31. In the Ain-i-Akbari the tract is shown as belonging to the Agra Tand revenue valuation under the Sirkar or district of the Agra Subah or Moghuls.

 Province. In the following table I quote the mahals or subdivisions mentioned in the Ain-i-Akbari which can be identified as now included in the Bharatpur State, with the land revenue then levied from them.

Parge	ına or maha	1.		Land revenue in rupees.	Tabsils in which now included.
			-	Rs.	
Biyana	•••	***	•••	1,77,753	Biyana.
Bhusawar	***	***	***	1,37,636	Bhusawar.
Khanwa	•••	***	•••	73,056	Part of Rupbas.
Kumher		•••	•••	18,650	Part of Kumher.
Heylak	***	•••	***	69,717	Part of Kumher.
Pahari	***	•••	•	30,725	Pahari.
Kama	•••	•••		12,613	Kama.
Muicira	•••	•••		15,453	Kama.
Ol (part)	***	***		1,37,738	Kumher and Bharatpur.

Unfortunately owing to the difficuty of identifying the old with the present names the comparison cannot be made complete. So much however is evident that the three old parganas of Biyana, Bhusawar and Khanwa, which now go to make up part of the four southern tahsils then paid a land revenue of Rs. 3,88,445, or more than half of what the whole tract pays at present. I have shown in Chapter II, of this year's report on Alwar that in Akbar's time the prices of agricultural produce were only from one-fourth to one-sixth of what they are now so that even assuming that the assessment then was only half of what it is at present, the proportion of the produce then taken, i.e., the pitch of the assessment, was very much higher than at present. This is also evident from the fact that Akbar's standard of assessment was one-third of the estimated

produce—and his estimates were pitched very high as shown in my Alwar report—converted into cash at the current prices of the year, or the average prices of the previous ten years.

32. The conquest of this tract by the Jats between 1720 and 1750 A. D. has. been related in previous reports. The par-Conquest of the tract by the Jats. gana of Weir in Bhusawar was granted as a separate Jagir by Badan Singh to his second son Partab Singh who built the present fort and palace, beautified the place with tanks and gardens, and enjoyed the title of Raja. Maharaja Jawahir Singh suspected him of intriguing with the Moghuls and aiming at setting up a separate State. He therefore captured Weir and forfeited the Jagir leaving Partah Singh only 12 villages for his maintenance. These his descendants held for ome generations with the title Maharaja Balwant Singh reduced the grant to the two villages of Bárha and Salempur, and on the death of Daryao Singh, the late Maharaja resumed even these and gave a cash allowance instead to the present head of the family Raja Samundar Singh who is pursuing his studies in the Mayo College.

In the same way Thakur At Ram younger brother of Churaman and the ancestor through his adopted son, Sardul Singh, of the Pathena Thakurs received a grant of Haleyna and about 200 villages in the vicinity. He built a fort at Haleyna which still exists. When Jawahir Singh attacked Weir the Haleyna chief Sawai Ram, who was in charge of the operations was suspected of intriguing with Raja Partab Singh. His large Jagir was at once confiscated, only a small portion being left for his maintenance. Even this has been gridually resumed and the descendants of At Ram now hold only a small area in Haleyna as sub-proprietors.

33. These two cases are typical of the manner in which the Bharatpur chiefs aggrandised themselves by absorb-Gradual resumption of Jagirs by the ing the possessions of their feudatory Jagirdais. While the State was still growing under Badan Singh and Suraj Mal and these chiefs had need of the strong arm of their Jat kinsman, the services of the latter were rewarded by liberal grants of jagirs and mafts from the conquered territory. Thus grants on a large scale were given to the 16 sons of Badan Singh, known as the Thakurs of the Solah Kothris, who became the founders of what are still the most prominent families in the State. When the boundaries of the State ceased to expand the Maharajas-from Jawahir Singh downwards-began to cast a jealous eye on these large grants and set themselves to resume or reduce them by various pretexts. In A. D. 1808, even after Weir and Haleyna had been resumed, no less than 43 estates (excluding Ballabgarh) in the present Bhusawar tahsil, embracing over one-third of the area, were still held in mass or jagir. At the settlement of 1855-57 the number had been reduced to 16, while subsequent resumptions have now reduced it to seven estates covering only 5 per cent. of the area. The temporary resumption of the Ballabgarh jagir has been referred to in paragraph 18. Even "the brothers near the throne" viz., the Thakurs of the Solah Kothris have suffered, the shares of those who died without having male heirs of the body having been resumed under the Nath rule. Large Inam grants were held also by horsemen on condition of service to the State when required. These horsemen used to band themselves together and commit organised raids and dacoities in Agra and the neighbour-Maharaja Balwant Singh struck at the root of the evil by enrolling the horsemen in a Cavalry regiment, resuming their lands and granting cash salaries instead. These were looked on as hereditary for some generations but most of them have now disappeared. Another method of reducing the area of Inam was by the resumption of the Inams of those who deserted in the famine of 1877-78, or failed to pay the miscellaneous cesses which the State levies on such lands.

The result of these measures is that the total extent of alienations—excluding Chauth estates—in Bharatpur is only one-eleventh of the total area and one-ninth of the cultivated area—probably lower than in any State in Rajputana.

The Nath rule has now been abolished and as long as there are any descendants of the original grantee, resumptions cannot be effected. So that any further considerable diminution of the jagir and mafi grants, except those which are purely temporary or personal, is improbable.

34. The leading agricultural tribes have already been noticed in the remarks under each tahsil but the follow-Leading agricultural tribes. ing table gives fuller details of the number of estates, total and cultivated area held by each.

		RJPBAS.	•		OOCHAIN	i .		BIYANA.		1	BHUSAWA	B.		TOTAL	L.
Tribe.	No. of	AT	IPA,	No of	ام.	BBA.	No. of		RBA.	No. of		RHA.	No. of		ABPI,
	estates.	Total.	Cultivated	estates.	Total.	Cultivated	estatos.	Total.	Cultivated	estates.	Total.	Cultivated	estates.		Cultivated
sat war	14	3,529	1,961	, 115	20,180	14,770	8	20, 460	12,524	12	20,821	13,939	33}	64,999	43,194
Jats	10	42,072	19,398	801	71,123	49,752	11 1	24,338	12,074	53	1,32,661	73,621	1141	2,70,191	1,84,749
Chakurs		***	 	1	1,073	973	5	20,610	6,697	6	11,100	7,912	111	22,783	15,582
Minas	***	•••		1	667	535	6	10,027	5,763	11	25,068	16,703	17}	35,762	23,001
Brahmin	15}	29,103	12,544	13;	47,175	20,616	18	34,239	17,378	19}	46,650	32,445	664	15,167	88,983
iodhas	6	8,333	5,013	3}	5,024	4,843	•••			•••	···		8}	14,257	9,996
oujars	8	13,245	7,105	18}	44,619	24,414	90	8,02,658	72,815	28	89,143	39,435	141}	4,49,663	1,37,799
Rajputs	161	67,395	27,190	6	21,568	13,615	8	56,767	15,020	2	6,621	3,604	321	1,45,571	59,320
Islis and Kachis.	3	` 4,566	2,462	12	793	415	5	0,596	4,655	3	3,321	2,570	113	19,276	10,10
other Hindus	1	2,175	1,499	2,3	3,010	2,392	2	5,082	2,723	8}	10,986	8,133	83	21 262	14,74
addis	. 1	1,018	498	1	1,663	647	8	12,016	7,464	7	9,635	5,643	16}	24,333	14,249
Sayads, Sheikhs, &c.,	5}	11,675	7,298	1	3,978	3,124	4	5,301	1,714	3	8,767	6,600	12}	29,019	18,743
ther Musalmans.					•••		•••	•••		•••	***		•••		•••
Cham '	,	1,613	1,030	4	5,465	2,972	11	7,301	1,909	***	***		55	14,370	5,91
tate property	1	7,417		3	2,733	•••	1	2,731		3	10,030	9,027	7	22,911	3,02
Total	78	1,82,341	88,592	98	2,32,999	1,43,508	, 168	5,01,133	1,61,606	149	3,74,003	2,07,644	491	12,90,478	5,99,41

The statistics include revenue-free as well as khalsa villages. Details of each class are given in para. 14, and revenue-free grants will be further considered in chapter IX.

Of the 490 estates in the tract 33½ or about one fifteenth are held by Sinsinwar Jats relations of the ruling family. All of these were originally and a few are still held in Inam on condition of Military service. Other Jats hold 114 villages or about two-ninths of the whole. They are scattered over all tahsils but are strongest in Oochain and Bhusawar. The Jats are rare south of the Banganga. In Rupbas they have ousted the Panwar Rajputs from many villages. Brahmins hold 67 villages or about 14 per cent. of the total number and are fairly well represented in all tahsils. The Bagri Brahmins are often spoken of as a separate caste, and are superior in industry to the other Brah-They hold 20 villages.

Gujars are by far the strongest tribe, holding 144½ villages or 30 per cent. They are scattered over all tahsils but are found chiefly in the hilly portions where facilities for pasturing cattle are abundant, and are most numerous in Biyana where they own more than half the estates and practically have a monopoly of the Nahera and Dang tracts.

Rajputs are fairly numerous in Rupbas all of which they once held, but hold only scattered villages in the other tahsils. In the whole tract they own 32 estates or one fifteenth. Minas hold 17 villages in Biyana and Bhusawar generally along the borders of Jaipur which is their chief habitat. Lodhas hold 10 villages in Rupbas and Oochain, but here as elsewhere are a feeble, spiritless race. Malis and Kachis who represent the market-gardening or petite culture agriculturists hold about 11 villages, and other Hindus hold nine of which three belong to Mahajans. The only Hindu tribe not mentioned in previous reports are the Dhakars. These claim to be of Rajput descent, and are probably one of the many mixed races formed by the intermarriage of Rajputs with inferior castes—probably in this case with the Jats. They own 113 villages in Oochain, Biyana, and Bhusawar, and are the most industrious and prosperous agriculturists in the tract.

Mohamedans own only 29 estates or 6 per cent. of the whole. The most important section are the Gaddis who own $16\frac{1}{3}$ villages chiefly in Biyana and in the vicinity of Weir. Their origin is doubtful. According to some accounts they are Rajputs forcibly converted to Islam under the Lodi or Moghul dynasty, while they themselves have a tradition that they are the descendants of Kshatryas or *Khatris* from Maghiana in the Punjab. They certainly have the Punjabi rather than the Rajput cast of features. They are poor agriculturists but take readily to service, especially in the railway.

The agricultural capacity of all these tribes has been described in previous reports and they may be classed as follows—

Good cultivators.-Other Jats, Minas, Dhakars, Mallis and Kachis.

Fair-Jats Sinsinwar Gujars, Brahmans.

Bad-Rajputs, Lodhas, Mohammedan and all others.

Thus about one-third of the estates are held by good, one-half by fair, and one-sixth by bad agriculturists. On the whole therefore the tract is fortunate enough in its agricultural population.

35. The origin and growth of rights in the soil, and the manner in which Rights of the agriculturists in the sufficiently discussed in previous reports. A remarkable feature in these tahsils and the Bharatpur State generally is the tenacity and success with which the zamindars of mafi and jagir estates have resisted the attempts of the jagirdars and mafidars to appropriate the rights in the soil. The Russian serf before emancipation said to his lord "Mui vashe, no zemliya nasha" i.e., "we belong to you, but the land belongs to us," and the Bharatpur peasant will similarly reply to his master, whether the State itself or a Jagirdar "Bhej tumhara, dharti hamara" i.e. "the revenue is yours, the land is ours." One of the most satisfactory features of the present Settlement is that the proprietary rights of the Zamindars have now been once for all formally recognised and put on record.

36. The droughts and famines which have affected this tract are the same prought and famine.

as those mentioned in previous reports. To the peasants of every country these famines mark the milestones on the road of history; and just as the Irish peasant calculates from the "Bad Times" i.e., the famines of 1846-47 and of 1877-78, so his Indian brother reckons events from "Satara" or "Chauntis" i.e., the famines of 1917 (A. D. 1860-61) or of 1934 (1877-78). The latter famine and the severe scarcities almost amounting to famine of 1896-97 and 1899-1900 will be referred to in connection with the history of the working of the various assessments which will now be examined.

37. The circumstances which led to the first Summary Settlement in 1855, carried out in the northern tabsils by Sir H. Lawrence, Agent to the Governor General, and in the rest of the State by his Assistant, Captain Nixon, have been

described in Chapter II of previous reports. The various re-assessments up to date have been:—

- 1. Summary Settlement
 ...
 ...
 ...
 1855-57.

 2. Three years' Settlement
 ...
 ...
 ...
 ...
 1858-61.

 3. Six years' Settlement
 ...
 ...
 ...
 ...
 1862-70.

 4. Addition of 10 per cent. to (3)
 ...
 ...
 ...
 ...
 1871-73.
- 5. The fifteen years' Settlement up to date. [This Settlement was found oppressive in the other tabsils and the demand was revised on the expiry of 10 years but here it was maintained.]
- 6. Ten years' Settlement 1874-90.

Of these Settlements or rather re-assessments—for no record of rights was framed prior to the present operations—the first two were carried out on broad and just lines by Captain Nixon under the instructions of Sir H. Lawrence, and all the rest were the work of inexpert and inefficient State officials whose main idea was to raise the State demand wherever possible, and to show improved financial results on paper quite regardless of the fact that the revenue collected was very much below that demanded.

38. In the following table I have endeavoured to show as clearly as the limited materials at my disposal will allow, the total demand and arrear of these tahsils at each re-assessment, and as Ballabgarh has been included in Bhusawar only since 1880 I have shown it separately.

		Rupi	145.	Оосн	AIN.	Bry.	ANA.	Bruss	WAR.	Тот	AL.	BALLAD	GARH.
No.	Settlement.	Demand.	Arrears.	Demand,	Arrears.	Demand.	Arrears.	Demand.	Arrears.	Demand.	Arrears.	Demand.	Arrears
	1854-55	Rs.	Rs. 1,02,791	Rs.	Rs. 40,019	Rs. 1,51,412	Rs. 1,47,396	Rs.	Rs. 2,02,306	Re.	Кв.	Rs.	Be.
1	Summary	29,092	7 1	1,15,984	h (1,11,466	ן נ	1,50,851	h c	5,10,400	******	28,978	
3	Three years	1,16,200	14,399 4	1,20,490	6,299	1,43,363	22,487 {	1,71,359	7.960	5,51,412	50,145	*****	
8	Sir years	1,18,299	19,000	1,26,150	lí Ì	1,62,592	[[-2,40]	1,80,645	1,000	5,87,716	******	24,856	
4	Do. revised	1,29,670) - (1,35,639	jį	1,79,959	j) (j	2,00,207	<i>\\</i>	6,45,475	******	444,,,	
5	Ten years	1,40,536	4,61,668	1,69,909	}1,68,688 {	1,90,682	85,997 {	2,20,792	} 96,405 {	7,21,919	8,32,758	*****	
	In 1882	1,42,879	(**01,000)	1,74,403		1,87,639	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	,,,,,,	1 200,000	<i></i>	*****	32,153	90,733
G	15 years 1890	1,00,513	1 . (1,72,373	h (2,06,947	h (2,36,271) (7,16,104	*****	84,767	7,541
	1892 `	1,05,768	1,30,623	1,72,373	1,39,794	2,06,947	} 66,650 ₹	2, 36,271	1,52,954	7,21,357	4,69,021	*****	99,273
7	1698-99	1,05,855	}	1,72,705	ا · ا	2,05,972	ن زا	2,38,480	/ . t	7,31,012	*****	*****	
	Total	·	<i>5</i> ,92,291		3,27,492		1,52,647		2,49,359		13,21,779		"'\

Of the arrears prior to the Summary Settlement, the total amount shown above was remitted in 1884 in Rupbas, Oochain and Biyana, while the amount unrealised up to that date Rs. 1,61,897 was remitted in Bhusawar. Hence the total arrears as now shown date only from the Summary Settlement of 1855. The pitch of these assessments and their working for the State as a whole was discussed in the introduction to my report on the northern tahsils.

39. Prior to the Summary Settlement the State in theory took one-third of the produce—a relic of Akbar's land-revenue system—which was levied either by actual division of the crop (batai), or more frequently taken by appraisement of the yield of the standing crop (kankut) which was converted into a cash demand at the current rates. A further development of this led to the theka or contract system by which the Zamindars or a middleman (thekadar) contracted to pay a fixed sum for a year or a term of years. In practice however the State took all it could exact from the people, and much of the residue was swallowed up by rapacious and corrupt officials.

- 40. To show that this is no fancy picture I quote from Captain Nixon's Condition of the people at time of summary Settlement. report (No. 77, dated 6th March 1858, to the Agent to the Governor General) on the re-assessment of the pargana of Bhusawar and Akhegarh.
- "On making the Summary Settlement I found the inhabitants of these two parganas in the most wretched state of destitution. I visited numbers of villages and collected the household property of the inhabitants to test actually what they were possessed of. Nothing can describe what their poverty then was and I expressed my conviction that they were actually gaunt with hunger. On other occasions they pleaded that they were starving and that the tahsil officials had taken both heaps of grain (the cultivator's share as well as the State's) alluding to the kharif and rabi crops or as they expressed it "donon kurrar le liya", and this was actually admitted by the tahsil officials themselves. I have only troubled you with these remarks with a view of pointing out that the discrepancy between male and female children is not always as we suppose the result of infanticide, for it is a well-known fact that the people to relieve themselves from temporary pressure give their female children in marriage to those whom they consider their inferiors obtaining a sum of money for so doing. In my general report*
- * No. 98, dated 31st May 1857 sending up the Summary Settlement of this territory, I fully remarked on the causes that induced me to reduce the taxation. The Summary Settlement was instituted by Sir H. Lawrence and has been a blessing of no ordinary magnitude to the population whom it has relieved from much oppression and injustice."
- 41. Unfortunately Captain Nixon's report on the Summary Settlement

 Reduction of the demand at summary cannot be traced, but from Sir H.

 Lawrence's reference to it the reduction must have been over 15 per cent. on the old demand; for he writes.
- "His (Captein Nixon's) reductions were even greater than mine (which had been 14.75 per cent.) and in Bhusawar especially, where the Political Agent had been deceived into believing that the reports of the distress were fictitious and got up by the tahsildar, his reductions exceeded by one-tenth the average of the last ten years' jama."

The reductions for the whole State were over three and-a-half lakhs on the previous demand, and in these tahsils were probably one and-a-half lakhs.

- 42. The Summary settlement was intended to be merely a temporary measure pending a regular settlement of the State for which under the orders of Sir H. Lawrence a field-to-field survey and a complete record of rights were being prepared by Captain Nixon with the aid of Lieutenant Hamilton, R. E., of the Survey Department. The report for the regular settlement of the first two parganas Bhusawar and Akhegarh was submitted in March 1858 as already stated.
- 43. In that report Captain Nixon discussed several important questions as to the rights of the zamindars and the share of the assets to be taken by the State, and as in previous reports I had not access to that correspondence I now quote a few of the most salient points. In para. 3 he writes.

"In accordance with the view of the late Sir H. Lawrence I have allowed the biswadars of Bharatpur in the new settlement a margin of profit varying from 30 to 50 per cent. Under the late Rajah they only received a Hakk Mokkaddami of from 2 to 5 per cent. as their profits, and under the summary settlement which I carried out in 1855 this Hakk was allowed. Hitherto in Bharatpur the Rajas have exercised the functions of proprietors or zamindars; that is they have enjoyed all the powers of the proprietor of the soil, have given whole villages in jagir, have measured out portions to their servitors, have cut down trees and in every way exercised signorial and proprietary rights. But henceforth by the introduction of a regular settlement these rights will be nullified, inasmuch as it is our system in making such a settlement to confer proprietary rights on the biswadar. After this explanation I solicit your explicit instructions as to whether you desire to confer proprietary rights on these people, for if not it would be as well after fixing the State demand to cease from prosecuting the Settlement any further, and thus leave the position between Raja and biswadars, and biswadars and cultivators for the present undefined. On the other hand should you desire to confer proprietary rights on the biswadars the definition of these rights can be proceeded with as in our Provinces."

After criticising the advantages of creating a class of middlemen or proprietors who rack-rent the actual cultivators, Captain Nixon concludes with the opinion that in British provinces we legislated blindly by giving the biswadars a proprietary interest where they previously held only a "tenant right."

44. Captain Nixon then goes on to explain his assumed rent-rates and how he arrives at them. I quote here the rates of the Bhusawar pargana converting them from rates per acre into

rates per bigha:-

_	Class of sc	oil.		Circle I.	Circle II.	Circle III,	Circle IV.		
Chahi	•••	•••		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.		
Sairaba	•••	•••	•••	2 2 0	1 13 0	1 10 0	1 1 0		
Barani	•••	***		160	130	1 2 0	0 11 0		

He adds:—

"The old tabsil rates of collection or revenue rate under the Rajah much exceed the rent rate now fixed by me, and the zamindars get a profit (remission) of 33 per cent. and upwards on this rent-rate besides being able by a fixed settlement to bring other land into cultivation without further demand from the State officials."

For the Bhusawar pargana—excluding Weir—Cantain Nixon proposed an assessment of Rs. 90,785, a reduction of Rs 7,500 on the Summary Settlement Rs. 98, 290—which had been more than 10 per cent. below the average realisations of the preceding ten years—thereby proving the genuineness of his intentions to leave a considerable share of the assets to the Zamindars. He also proposed that the Settlement be made for ten years in the first instance to enable the Maharaja on attaining his majority to ratify it for a further term of years should he think fit.

Had these proposals been accepted and applied to the whole State, as was the intention of Sir H. Lawrence and Captain Nixon, the prosperity of the Zamindars and of the State would have been put on a solid basis, and the revenue history of the State would have been very different. What orders if any were passed on Captain Nixon's proposals the files in the Bharatpur or Abu offices do not show, nor have I been able to ascertain. The people however, when they complain of over-assessment invariably ask to have the jama fixed as "Laland Sahib" (Sir H. Lawrence) or the "Chota Sahib" (Captain Nixon) fixed it 45 years ago.

45. This much is clear that instead of a settlement for 10 years to be conti
Three years' settlement.

nued when the Maharaja came of age,
the term of settlement was limited to
three years, and the demand for the Bhusawar pargana so far from being reduced
from Rs. 98,290 to Rs. 90,785 was raised to Rs. 1,10,725 and is now Rs. 1,48,708
or 65 per cent. above the jama proposed by Captain Nixon. Enhancements on a
similar scale (see paragraph 38) were taken in all tahsils but Biyana, although
Sir H. Lawrence and Captain Nixon were both of opinion that considerable
reductions on the Summary Settlement were necessary; while nothing was settled
as to the status of the zamindars. Thus a golden opportunity of placing the
revenue administration on a secure basis was lost, and though, as will be
seen, one Political Agent after another took up the question of reassessment,
they dealt with it in a tentative and timorous way lest their action should
hamper the Chief when he should come into power.

The term of the three years' settlement expired with the rabi of 1862, and the Political Agent, Lieut. Walter, writing in November 1861 proposed that a new Settlement should be made for a longer period i.e. for six years, so

that its expiry might coincide with the Maharaja's coming of age in 1868. This was sanctioned by the Agent to Governor General who added that—

"the Summary Settlement of Captain Nixon and the three years' settlement of Major Bouverie have both worked satisfactorily, and the capabilities of each village ought now to be so well known as to render the new assessment a work of comparative case, even though it is fixed for a longer period. I beg that you will carefully make full enquiries in each village before assessing so as to ensure an equitable and popular settlement, bearing in mind that justice to the ryot is of higher importance than an increase to the State revenue".

The re-assessment, for it was nothing more, was carried out by the revenue officer—Ahmad Hussain—under the supervision of the Political Agent, and the result was another considerable addition, averaging 7 per cent. for the whole tract, to the State demand.

46. This new assessment appears to have worked well and the demand to have been paid with reasonable fulness and Six years' settlement. punctuality. The term expired in the The Political Agent writing in September 1867 proposed that a rabi of 1868. new settlement for a term of 20 years, to which the Council and the young Maharaja agreed, should be made from the autumn harvest of 1868. He negatived the suggestion to have this settlement carried out by a British Officer, as owing to the several short term settlements already made the value of land was well known, and the records of former settlements together with the papers of previous years would form a sound basis for fixing the new demand. He therefore proposed to form an assessing committee of experienced Revenue officers to be associated with the Deputy Collector, Mr. Heatherly, who should after examining the records of past realisations and inspecting each estate give their opinion to the future assessment, the final decision being passed by the Political Agent in the presence of Maharaja.

The system proposed though a rough and ready one, would if worked by honest officials possessed of sound local knowledge have probably secured a fair demand. The work was begun on these lines but owing to the scarcity and bad harvests of 1868-69, the settlement was postponed and the demand of six years' settlement continued till the close of the year 1870-71.

47. By that time the late Maharaja had come into power and his first step was Temporary revision of the six years' to add 10 per cent. all round to the existing demand with effect from the years 1871-

72. An indiscriminate enhancement of this nature must inevitably have given rise to inequality and excessive taxation in certain tracts and in a great number of individual villages, but the Maharaja justified his action by quoting the opinion of Captain Powlett, Political Agent, in the administration Report of 1871-72.

"I have good authority for saying that the assessment can be immediately raised by 2 lakhs without oppressing the people".

The new demand was however paid almost in full for the 2 years 1871-72 and 1872-73, as during the sixteen years of the minority the agricultural population had increased in prosperity, cultivation had considerably expanded, great numbers of new wells had been sunk and old ones restored with the help of State loans, and the irrigation system had been developed and extended in the hands of a competent Engineer.

48. Meantime the Maharaja was pushing on the work of a new assessment Ten years' settlement by the late by means of a committee. The result of their labours-of which there is no other record—was to enhance the demand for the whole State from Rs. 16,90,202 to Rs. 20,16,584 an increase of 20 per cent. In these tahsils the increase on the previous demand was Rs. 76,444 or about 12 per cent. and as compared with Major Nixon's Summary Settlement 15 years before it reached the enormous amount of Rs. 2,11,519 or over 40 per cent. Although the Political Agent in reporting on the new assessment justified the enhancement taken and accepted the Darbar's assurances that the settlement far from being a hard one would bear further increasing after a period of years, I have no hesitation in saying that coming after a series of enhancements, the last of which—at an all-round rate of 10 per cent.—had been made only two years before, the new settlement was grossly excessive, and even if it had not been strained to the breaking

pitch by the famine of 1877-78, it must inevitably have broken down of its own weight. The pressure of over-assessment was felt all the more because no steps were taken to prepare any record of rights or to secure an equitable distribution of the liability. The committee, it is true, professed to frame soil and rent-rates according to the accepted principles of assessment and to leave one-third of the assets to the Zamindars, but this was merely part of the policy of make believe with which the Bharatpur administration successfully deceived the outer world for over 20 years. The sole object was to wring more money out of the people, while at the same time the State in return gave them no help towards developing their resources, but absolutely neglected the duty of maintaining the irrigation works, and allowed the richest parts of the State to become a desert devastated by the uncontrolled floods of the Banganga and overrun by thousands of For a few years the zamindars aided by the good seasons and the accumulations of past years were able to meet the new demand and arrears were small, but the famine of 1877-78, and its effects caused a general cataclysm in which hundreds of estates disappeared altogether, and from which hundreds more have not yet fully recovered.

49. The effects of the famine in these tabsils were practically the same as already described in paras. 59-67 of Effects of the famine of 1877-78. the report on the northern tahsils, viz.; (1) decrease of population owing to death and emigration; (2) depopulation and desertion of estates owing to the loss of cattle and agricultural resources, the break-down of credit, and the general panic among the people; (3) the criminal neglect of the Darbar to take any adequate measures of relief, and its ill-timed action in endeavouring to extort the full demand from a starving and impoverished people and to compel the baniyas to sell grain at fixed prices and make advances to the zamindars; (4) an enormous decrease in the cultivated area, and a deterioration in agriculture generally owing to want of labour and capital to work the land; (5) the beginning of the enormous arrears of land revenue which have continued almost without interruption up to the present date; (6) a general transfer of estates and holdings either compulsorily—by the State for payments of arrears, etc., or voluntarily by the owners to escape revenue liability.

50. These will be incidentally referred to in this and succeeding chapters.

History of revenue collections and The point bearing most directly on the arrears up to date.

The point bearing most directly on the new assessment is that of revenue collections which I shall now consider in detail.

From 1855-56 to 1876-77 the collections of revenue had been astonishingly good for a Native State considering the high assessment. In Bhusawar the total arrears were only Rs. 18,177 of which Rs. 10,313 were subsequently collected leaving only Rs. 7,864 actually now in balance. In the other tabsils too the arrears must have been comparatively little as the amounts now outstanding from 1855 to 1877 are only—Rupbas, Rs. 14,379; Oochain, Rs. 5,299; Bhusawar, Rs. 22,489.

The demand and arrears, including cesses, for 1877-78 and the four following years were as follows:—

			RUPBAS.	,		OOCH'Y I	۲.	BIYANA.			ŔĔ	IUSAWAR	. ,	BALLABGABH.		
Name of	year,	- 1	ABB	1189, -		Aņr	ABS.		Arbrars.			Ardears.		-	ABBBARS.	
		Demand.	Bealised.	Incurred.	Demand.	Realised.	Incurred.	Demand.	Realised.	Incurred.	Demand.	Realised	Incurred.	Demand.	Realised.	Incurred.
		Rs.	Rs.	Rs.	Rg.	Rs.	Rs.	Rs.	Rs.	,Re.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1877-78	***	1,44,328	1,428	46,857	1,78,869	873	693	1,95,553	1,072	18,323	2,22,426	32	27,748			4.1 "
1878-79	. ***	1,43,615	926	41,541	1,88,972	.2,948	10,024	1,95,750	6,591	3,490	2,29,138	1,960	14,314			
1879-60	***	1,50,152	1,676	40,683	1,86,838	18,364	2,450	1,98,430	5,770	2,702	2,41,932	18,681	11,508	33,935	•••	2,651
1880-81	***	1,61,628	1,439	39,492	1,87,833	, 2,591	13,395	1,99,280	4,651	10,357	2,37,870	6,839	35,721	33,815		2,965
1881-83	941	1,50,767	1,356	20,197	1,97,127	,6,560	15,109	1,99,950	4,630	2,769	2,41,275	7,011	21,624	35,939	1,294	1,937
Total		-7,40,490	6,854	1,88,750	9,39,693	21,336	41,661	9,88,963	22,714	37,641	11,72,641	31,555	1,16,915	1,03,689	1,294	7,598
Average		1,48,099	1,371	37,750	1,87,939	4,267	8,332	1,97,793	4,513	7,528	2,34,528	6,911	22,183	31,563	431	2,632

These figures show that in disregard of the intense agricultural distress the State not only formulated the full demand from year to year, but also endeavoured to realise the arrears of each year in subsequent years. Meantime the resources of the Zamindars were being gradually exhausted and even when the years of drought passed away and good seasons returned they were unable to meet their liabilities. Thus for the whole period of five years the net arrears deducting sums realised within the period (excluding Ballabgarh) and their proportion to the total demand were as follows:—

Details.	Rupbas.	Oochain.	Biyana.	Bhusawar.	Total.
Total arrears in Rs Percentage of total demand.	1,81,896 25	20,325 2	14,927 1:5	76,160 6·5	2,93,308

From this it appears that the famine fell very unequally on different tahsils. Rupbas which has a stiff soil requiring a heavy rainfall, suffered most and one-fourth of the demand remained in arrears. Bhusawar came next with arrears amounting to one-fifteenth, while in Oochain and Biyana the arrears were not very heavy and a considerable portion was paid off in the period leaving only 2 and 1.5 per cent. respectively in arrears at its close. No rainfall statistics for these tahsils are available during this period. They would no doubt help to explain the greater severity of the distress in Rupbas. The annual reports however show that the rainfall of 1880-81 was very deficient throughout the State, and that accounts for the large arrears of that year in all tahsils and delayed the recovery of the tract from the famine of 1877-78. The cultivated area of years prior to 1881-82 is not known. On the cultivation of that year the incidence of the collections per higha were—

Rupbas.	Oochain	Biyana	Bhusawar.
Ŕs.	Ra.	Rs.	Rs.
2-1-8	1-10-0	1-9-3	1-6-3

which is higher, and in the case of Rupbas and Oochain very much higher, than the present incidence.

In 1882-83 the 10 years' settlement expired, and the demand was revised and reduced by about a lakh in the five northern tahsils—Gopalgarh, Pahari,

Kama, Dig, Kumher—which were supposed to have suffered most from the famine and the drought of 1880-81. Though these tabsils were equally in need of relief none was given. The old demand was maintained and attempts made to realise the arrears. The only concession given was that in consequence of the drought of 1883-84 the old arrears prior to 1855-56 were remitted; but Sir H. Lawrence had given directions to this effect 30 years before, so the boon was an empty one.

The total and average demand, arrears, and incidence for the next 8 years 1882-83—1889-90, are shown in the following table:—

	ī		 -		 7							
		Ruei	BAS.	Ooci	TAIN.	Bix	LTA.	Впуз	AWAR.	BALLI	BGARH,	
Detail.		Total.	Average.	Total.	Average.	Total.	Average.	Total.	Average.	Total.	Average.	Тоты
	-	Rs.	Re.	Rs.	Ks.	Rs.	Rs.	Rs.	~ Rs.	Rs.	Rs.	Rs
Demand-revenue and cesses		11,57,393	1,41,674	15,45,505	1,93,188	16,70,399	2,08,810	20,18,318	2,52,993	3,01,682	\$8,095	66,96,
Realised-revenue and cesses		8,81,585	1,10,873	13,80,721	1,72,590	16,22,613	2,02,830	17,97,339	2,24,668	2,83,311	35,789	69,71,
Old arrears realised		7,787	973	19,167	2,398	73,169	9,146	16,889	2,111	3,723	465	1,20,
New arrears incurred	•	2,72,808	33,101	1,61,781	20,598	47,753	5,969	2,21,009	27,629	8,371	2,296	7,24,
Cultivated area		4,30,553	53,810	8,03,020	1,01,003	10,67,249	1,33,405	12,76,111	1,59,555	1,37,824	19,659	37,20
(a) demand			2 11 0	•••	1 14 7		190	***	196		1 15 0	***
bigha (b) collections		***	3 1 2	•••	1 11 8	•••	105	•••	169		113 0	

In this period therefore the new arrears in Rupbas amounted to 24 per cent. of the total demand, in Oochain and Bhusawar to 11 per cent., in Biyana to only 3 per cent.; and if we allow for the arrears collected the net arrears were—

Вогв	48,	Ооспа	ir.	Bry	INA.	Вишь	LWAB.	Ballan	GIRH.
Pa.	Per cent.	Rs.	Per cent.	Es.	Per cent.	Rs.	Per cent.	Rs.	Per cent.
2,65,021	23	1,45,617	9.5	Nil	Nil	2,04,120	10	14,649	5

In Biyana the old arrears collected exceeded the new arrears by Rs. 25,416 so that the tahsil more than paid its way during this period. As in the previous period the arrears in Rupbas were by far the highest and there is no doubt that the tahsil was grievously overassessed as the incidence of the demand and collections on the cultivated area clearly proves. In Oochain the large arrears were due partly to the damage done by Banganga floods and by wild cattle which threw much land out of cultivation and thus made the assessment an excessive one, the incidence of the demand averaging Rs. 1-14-7 per bigha of cultivation. In Bhusawar the wild cattle pest did not exist but several villages had suffered from the Banganga floods which choked the wells and transformed cultivated lands into wastes of arid sand. Moreover many estates were wholly or partly abandoned or managed Kham. Here too the incidence of the demand, Rs. 1-9-6 per bigha, was relatively high. The Biyana tahsil alone showed rapid recovery.

With the exception of the severe drought in 1883-84 this period was on the whole one of good rainfall and average prosperity, and given a moderate demand all tabsils would have been able to recover from the effects of the famine. But owing to the depopulation, bad revenue management, neglect of the irrigation dams &c. &c., the cultivated area so far from expanding receded considerably in all tabsils but Biyana.

The situation had now become critical in all but the northern tabsils, where the demand of the 10 years settle-(4) Fifteen years settlement in 1990-91 and subsequent collections and arrears ment had been considerably reduced, and the Maharaja determined on a new settlement beginning with the year 1890-91 to last for a term of 15 years. The first step to this was the levy of a cess of 10 per cent. on the existing demand from every village to meet the cost of the operations, and this brought in Rs. 1,63,674 of which about Rs. 63,600, was actually spent on survey, etc., and the rest went to the State. The next was the appointment of the inevitable Assessing Committee headed by the Court Physician, Rahim Buksh. For absolute incompetency and failure to realise even in the dimmest manner the requirements of the situation, I have never met anything that could approach the proceedings of this Committee. Masses of estimates and calculations were prepared, throughout the dreary maze of which it is impossible to perceive a glimmer of intelligence or common sense except when here and there a Tahsildar with some local knowledge describes the condition of a village in one or two brief lines.

An atter pt was made to prepare a record of rights which is the despair of any official who has to refer to it. The sole document of any value is the Field map prepared by imported amins. As regards the assessment the Committee generally relied upon the opinion of the Tahsildar, and where he was both honest and capable—a combination not over-common in Native States—the result was fairly satisfactory; where he was a fool or a knave, or where the Committee relied upon their own judgment, the most extraordinary contradictions and inequalities were the consequence. The final result of their labour was to give an enormous reduction amounting to about 30 per cent. in Rupbas, a slight enhancement in Oochain, which was not justified at the time, a considerable enhancement in Biyana which if properly apportioned according to the resources of each estate would not have been unfair, and a considerable and unjustifiable enhancement in Bhusawar which was one of the main causes of the general collapse of that tahsil in the first subsequent year of drought.

As this is the settlement which I am revising, its working may with advantage be examined year by year. The demand and arrears include revenue and cesses.

B—13

	Banara,				,	•						٠					
	ʻp:	Area cultivate	R8.	19,458	19,740	19,980	10,178	19,313	10,164	19,012	20,303	20,899	;	1,77,407	19,712	:	:
.0484.	4.119.	Incurred.	Bg.	679	1,109	1,172	617	894	1,769	2,225	892	1,033	•	10,107	1,133	:	:
Biccinolau.	Апвикна	Realised.	E4.	272	453	813	583	1,101	804	820	1,195	1,009	:	6,767	751	37, 583	1-1 1-6
		Demand.	. 185.	37,018	38,001	131,151	38,223	37,768	38,007	38,123	39,243	37,548	1	3,41,691	37,935	37,	1-1
	·p	Area cultivate	Rs.	1,51,832	1,68,506	1,75,575	1,70,386	1,73,679	1,47,169	1,49,358	1,00,565	1,70,378	:	14,65,529	1,62,837	:	:
1 7 48.	,811.	.berruonI	Bs.	13,978	13,790	9,731	7,718	5,125	23,162	73,003	21,053	22,437	:	1,01,676	21,297	:	ı
Вповащая	Апвилия	Mealised.	Ba.	2,157	6,430	6,301	9,418	020'9	2,251	4,713	19,420	13,260	:	600'60	7,668	917	9
		Demand.	ße.	2,58,412	2,66,134	2,63,696	2,61,567	2,61,831	2,61,200	3,00,571	2,61,242	2,65,164	:	23,62,920	2,62,516	2,48,917	1.8.6
	ď.	otavitino asta	Bs.	1,27,438	1,34,561	1,31,625	1,29,701	1,31,925	1,19,051	1,19,106	1,35,415	1,42,080	:	11,70,002	1,30,000	:	i
137A.	Авяване.	Inc vrred.	цв.	4,010	1,683	098'8	3,556	4,180	16,164	35,168	3,570	2,610	:	73,128	8,125	ŧ	
Вгтана.	ABRI	.bseifesd	Rs.	10,721	12,438	12,749	10,768	9,302	3,053	25,861	19,429	19,228	:	1,22,646	13,627	018	- ci
,		•рпишэД	Bs.	2,25,225	2,24,013	2,21,011	2,25,147	2,24,254	2,25,161	2,21,374	2,24,997	2,23,825	:	20,10,040	2,21,338	2,20,840	Ξ
		Area cultivateo	Bs.	02,082	1,02,981	09,172	1,00,393	1,05,911	81,412	91,471	1,14,570	1,23,583	:	9,17,485	1,01,943	:	:
00сплім.	Авпилив.	Incurred.	BS.	13,412	7,778	7,000	6,401	2,013	61,100	63,009	8,015	12,735	: :	1,66,189	1,89,406	:	;
000	Авп	Realised.	Rs.	3,032	4,823	6,478	3,799	2,845	3,623	10,856	18,316	10,709	:	72,510	8,057	10.	1.1 3.0
		р ешэп д •	Вя.	ı.	1,93,591	1,87,421	1,86,739	1,85,907	1,89,202	1,89,830	1,90,502	1,89,709	ŧ	17,00,122	1,88,902	1,78,	-2
		Area cultivated	Bg.	47,470	67,515	60,810	60,103	67,257	56,756	67,633	78,506	63,049	:	5,47,365	60,607	:	:
Rurbas.	Апенав.	lncurred.	Rs.	13,847	14,656	7,814	6,709	6,161	2,267	42,253	26,913	7,610	21,524	1,48,760	16,532	ŧ	:
Rur	Ann	Realized,	Ω8.		2,307	2,013	6,253	3,174	803	4,963	4,338	8,725	1,967	31,127	3,793	910	1-108
		Demand.	ä		1,12,630	1,15,336	1,15,433	1,15,642	41,437	1,15,031	1,11,707	1,15,014	73,430	10,29,250	1,14,250	1,01,	:
	•	Ycars.		1600-01	ro-1651	1892-93	1663-91	1894-05	1895-96 (one harvest)	1603-97	1837.08	1698-02 ***	Odd harrest	Total of 9 years	Artiego	Average total realisations	Per bigha

The first five years of the nine were a period of good rainfall and average agricultural prosperity. Cultivation increased rapidly in all tahsils; some old arrears were collected; and though the new arrears were considerable in Rupbas, Oochain and Bhusawar, they were due in great measure to an unequal distribution, to the deterioration of several villages close to the Banganga, and to the slackness of the revenue authorities in collecting especially in Rupbas.

(5) The two years, 1895-96 and 1896-97, were years of very severe drought

Agricultural and revenue conditions of the last 5 years

in this tract. The rainfall was as follows:—

	Year	s.		Rupbas.	Oochain.	Biyana.	Bhusawar.
1895-96	***	•••	•••	18:83	12.51	18·3 6	12.04
1896-97	•••	***	•••	10.35	11.02	8:31	15.19

Both crops failed largely in both years, and compared with 1894-95 the area sown fell off by 20 per cent. in Rupbas and Oochain, by 15 per cent. in Bhusawar and by 10 per cent. in Biyana. Cattle died of starvation, the people began to feel the pinch of hunger and crowded to relief works. The State did nothing to encourage the zamindars by suspending part of the demand, and the pressure employed in collecting the revenue especially in Bhusawar, where even the plough and well cattle were in some cases sold up by the tahsil officials, led to wholesale desertions of agriculturists. In that tahsil alone no less than 2,537 persons or 4 per cent. of the population deserted in these years of whom 1594 sought refuge in foreign territory, and this struck a blow at the prosperity of the tahsil from which it has not yet recovered. The Wal tract in Rupbas, the Rudawal and Jatmai portions of Oochain, and the Dang and Nahera of Biyana also suffered severely. The arrears in these two years combined were equal to those of the remaining seven.

The favourable rains of 1897.98 put new heart in the people; the area under cultivation increased enormously; and two good harvests enabled them to more than meet their obligations in Oochain and Biyana—where the amount of old arrears paid up exceeded that of the new arrears. In Bhusawar the two items nearly balanced one another, but in Rupbas the arrears amounted to over 20 per cent.

The year 1898-99 was one of average rainfall except in Rupbas where it was again short, and in the year just concluded the total rainfall was not deficient. But, as already remarked, nearly all the rain fell in both years in June, July and August; the September rains were almost a total failure, and practically no rain fell in the cold weather months. Hence the autumn and spring crops were decidedly below the average in 1898-99, and in the last year the crops except on sweet wells or inundated lands have been almost a total failure. Thus it will be seen that the steady progress made in the first five years has been undone by the disastrous character of the last five. It should be explained that the arrears since 1890 have been considerably swelled (1) by the inclusion of fees due for coercive processes the amount of which included in the arrears is Rs. 9,842 in Bhusawar alone, Rs. 9,086 in Rupbas; Rs. 6,613 in Oochain and Rs. 3,954 in Biyana, (2) by showing as arrears in kham villages or deserted holdings the difference between the settlement demand and the sums actually realised. The arrears under this head are Rupbas nil, Oochain, Rs. 9,956; Biyana, Rs. 19,158; Bhusawar, Rs. 25,528.

Deducting sums realised in subsequent years, the arrears now outstanding for the 9 years 1890-91—1898-99 and their proportion to the total demand are

	Detail.		Rupbas.	Oochain.	Biyana.	Bhusawar.	Ballabgarh.	Total.
Rupees Per cent.		•••	1,30,623 12·5	1,38,794 8	66,650 3	1,52 ,95 4 6•5	7,541 2	4,96,5 62 7

On the other hand the following sums were realised during this period on account of old arrears.

Rupbas.	Oochain.	Biyana.	Bhusawar.	Ballabgarh.	Total.
Rs. 14,269	Rs. 2 3,056	Rs. 21,824	Rs 30,288	Rs. 4,101	Rs. 93,538 -

51. Details of the total arrears now outstanding from 1855-56 to 1898-99

Total arrears of land revenue and in each tahsil are shown in the following table the absolute accuracy of which, though prepared after the most searching, enquiry from materials supplied by the tahsil offices, I cannot however guarantee.

Period.	Bupbās.	Oochain.	Biyana.	Bbusawar.	Ballabgarb.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1855-56 — 1876-77	14,379	5,299	22,487	7,960	***	50,125
1877-78 1881-82	1,68,750	41,661	37,641	76,460	18,234	3,62,746
1882-83 1889-90 or 1890-91 in Rupbas.	2,72,803	1,64,784	47,753	42,273	16,599	5,44,217
Total up to last settlement	4,75,937	2,11,744	1,07,891	1,26,693	94,833	9,57,088
Of which since realised	14,269	2 3,056	21,884	30,288	4,101	93,598
Balance still due	4,61,668	1,88,688	85,997	96,405	30,732	8,63,490
Arrears since last settlement	1,30,623	1,38,794	66,650	1,62,954	7,541	4,96,562
Grand Total still due	5,92,291	3,27,482	1,52,647	2,49,359	38,273	13,60,052

The total arrears for the tract are Rs. 13,60,052 or nearly two years land-revenue demand.

52. Of this enormous sum Rs. 8,63,490, representing all the arrears prior Proposals for the remission and collection of these arrears. To last settlement, have already been relection of these arrears. The mitted by the State in commemoration of the birth of a son and heir to His Highness the Maharaja last year. The arrears since last settlement i.e., down to rabi 1899 have now to be disposed of. In the course of my village inspections I have enquired carefully into this subject, and in the arrangements made for the settlement of kham villages and deserted holdings the amount of arrears to be levied has already been settled and accepted by the zamindars.

The general causes of these arrears, viz., over-assessment, a bad distribution, damage caused by Banganga floods in all tahsils and by wild cattle in Occhain, neglect of irrigation works, the break down of the assessment in kham villages and deserted holdings, the great number of bad harvests in late years, and to a great or less extent in all tahsils slackness or collusion on the part of the tahsil officials have already been referred to.

An officer with a wide experience of revenue management in Native States has recently pointed out to me, that there are three methods of calculating the collections—

- (1) the amount actually realised from the people;
- (2) that which comes into the hands of the tahsil officials;
- (.) that which actually finds its way into the State coffers.

The last falls short of (1) and (2) in a greater or less degree according to the varying efficiency of the revenue administration. In these tabsils I fear the amount realised by the State by no means represents what has been taken from the people.

A good deal has stuck to the palms of the Patwaris and subordinate tabsil agency, while if the Tabsildar was slack or corrupt he found only too many opportunities for feathering his own nest at the expense of the State. Up to the last few years there was no attempt at supervising the Tabsildars' work, and the traditional policy was that they should be given an absolutely free hand in collections and when these were in progress the superior revenue officials were to refrain from touring or interfering with them in any way.

A consideration of all these facts and of the present condition of the people makes it essential to take a lenient view in deciding what amount of these arrears is now to be realised. My proposals based on a village-to-village examination of the facts is to realise as follows—

Rupbas.	Oochain.	Biyana.	Dhusawar.	Ballabgath.	Total.
Rs.	Rs.	Rs.	Rs.	. Rs.	Rs.
20,000	20,000	15,000	27,500	2,500	85,000

and to remit the remaining Rs. 4,11,652 as irrecoverable.

The arrears due on Mafi holdings since last settlement will be considered in Chapter IX, Part II. All other miscellaneous arrears for Takavi, salt, wells, etc., prior to last settlement have already been remitted. In giving out the new assessments the total amount of arrears to be levied will be fixed and as a rule it will be distributed over the 20 years term of settlement and realised regularly as part of the State demand. This system has been found to answer well in the tahsils already assessed. It is possible that the sum-total of the arrears when fixed village by village may be above or below the amounts above indicated, but I shall endeavour to work up as closely as possible to them.

53. The following table shows the extent to which holdings have been abandoned by deserters who have not yet returned.

	•60;	owners de-	Ur to	IND INC	LODING 1	877-78.		Singe	1877-78.		7	COTAL U	P TO DAT	B.
Tabsil.	Total numbér of cetatos.	Number in which ow serted,	No. of deserters.	No. of holdings.	.Area.	Janıs.	No. of deserters.	No of holdings.	Area.	Jamā,	No. of deserters,	No. of holdings.	Area.	Jame,
Rupbas Oochain Biyava	78 96 169	61 63 134 137	493 581 2,748 1,710	306 164 1,348 849	4,358 16,180 61,603 60,169	, 4,459 14,694 31,450 57,956	56) 841 1,184 1,633	261 278 811 618	3,951 22,692 25,577 54,664	4,110 21,591 16,679 41,733	1,057 1,425 3,932 3,343	570 442 2,159 1,667	8,309 38,872 87,380 1,14,833	8,569 36,278 51,159 99,699

. In Ruphas the deserters number one-third of the owners still left, and the area deserted is about one-twelfth of the whole. In Oochain too the number of deserters is equal to one-third of those remaining, but their shares represent one-fifth of the area. In Biyana the number of deserters is equal to half the present number of owners and the abandoned area is more than one-fourth of the whole; while in Bhusawar the desertions were on a scale even more enormous, the deserting owners numbering one-half of the present number and the abandoned lands representing nearly two-fifths of the Jama of the tahsil. In all . talsils half or more of the desertions occurred in the famine year of 1877-78 or prior to it, and were primarily due to the harsh and shortsighted revenue policy then pursued. After that desertions on a very large scale took place in 1895-96 and 1896-97, especially in the Bhusawar tahsii, where they were due to the mistaken zeal of a tahsildar in harshly enforcing the full demand in years of drought and scarcity. The desertions in other tahsils of recent years have been comparatively few, as less vigour was employed in realising the revenue, and employment was found for the destitute by the Public Works Department in repairing bands, digging canals, etc.

Within the last year though the scarcity was greater than in any year since 1877-78 there were practically no desertions owing to the liberal policy pursued by the State in suspending part of the demand and opening relief works; in fact great numbers of the old deserters have returned and resumed possession of their holdings.

54. Besides the enormous areas voluntarily abandoned by the impoverish-Transfer of villages by the State or by the owners; when estates fell into arrears and the owners were unable to arrange for payment the State interfered and of its own motion transferred whole estates or shares of them to outsiders, or the owners under pressure of the State demand themselves made such transfers. The arrears so transferred from the famine of 1877-78 up to date are as follows.

one famine		511-10 up to u		,	·	·	1	1
Talısil.		Detail.		Number of villages transferred in whole or part.	Атез.	Jama.	Purchase money.	Remades.
		By order of State	· ·	17	9,342	6,301	6,765	
Rupbas .	₩{	Mutual agreement	•••	8	2,617	1,025	6 86	
		Total	•••	25	11,959	7,326	7,301	
•	(By order of State	•••	11	5,806	4,528	2,487	
Oochain	•• {	Mutual agreement	•••	. 9	1,661	1,261	1,533	
		Total	***	20	7,467	5,784	4,020	
	(By order of State		7	1,138	1,297	858	1
Eiyana	··· {	Mutual agreement	•••	10	3,383	2,160	es t ,	•
		Total	•••	17	4,521	3,457	828	•
	(By order of State	•••	10	7,723	6,058	4,867	
Bhusawar	 {	Mu, al agreement	•••	33	11,334	7,873	7, 773	
		, Total	***	43	19,057	13,931	12,610	•

In this way whole estates or shares in them paying 7 per cent. of the present Jama in Ruphas, 3.5 per cent. in Oochain, about 2 per cent. in Biyana and over 5 per cent. in Bhusawar were sold up for arrears by the State or transferred by the owners, and it is a sad commentary on the system that the purchase money in no tabsil amounts to one year's land revenue of the area transferred. The State would have shown not only more humanity but also more enlightened self-interest had it remitted or given lenient instalments for the arrears and encouraged the old owners to stick to their lands.

Estates brought under direct manages sive though they have been, by no means exhaust the estates which broke down under the strain of overassessment, bad harvests, and bad administration. A favourite device in the past has been to take estates in which the owners got into difficulties and refused to be any longer responsible for the State demand, under direct management, the State leasing out the land to the old owners as ordinary cultivators or to others at such rates as it considered fit.

Given efficient management this arrangement though not a desirable one might serve as a temporary expedient. As worked in Bharatpur, where kham estates are managed by the Naib Tahsildars through the local Kanungo or Patwari generally with an eye rather to their own interests than to those of the State, the system has caused immense loss to the State and further deterioration in the condition of the villages. As an example of the abuses prevalent I may mention a case brought to my notice in Biyana this year where the Naib-Tahsildar had leased 50 bighas of land for Rs. 0-8-0 per bigha for which, the Tahsildar had no difficulty in obtaining Rs. 3-4-0 per bigha and that too paid in advance.

One of the many evils in the old assessments was that where an estate was kham or deserted a nominal Jama was fixed and no steps were taken to arrange for its future payment, the result being an enormous accumulation of arrears in such cases. Every case of a kham estate or holding has now been taken up, and arrangements made for the abolition of the kham system from the new assessment. Where, as generally happens, the old owners agree to accept a fixed assessment and can show their ability or give security to pay it, the land is settled with them in whole or in part, and where they refuse or are unable to accept liability arrangements have been made with other agriculturists.

56. In Rupbas the kham holdings are limited to half of one estate and one-Arrangements now made for kham third of another, and in both cases pervillages. manent arragements have now been made with the old owners.

In Oochain the following estates (1) Barkoli, (all), (2) Bahrauli (all), (3) Ratauwa (all), Nangla Radha ($\frac{2}{3}$), Kakrauwa ($\frac{1}{2}$), (6) Basi Kalan ($\frac{1}{12}$), (7) Gugrawa ($\frac{1}{2}$), have come under direct management since last settlement. In (1), (4) and (6) the whole area has been restored to the old owners, in (2) and (5) they have been given half the land, the other half going to temporary lessees or other cultivators, in (3) they have retained a $\frac{1}{20}$ share and voluntarily given $\frac{6}{20}$ to a relation, while in (7) owing to the desertion of the old owners the share has been transferred to a neighbouring Zamindar. The whole area thus settled in Oochain amounts to 5742 bighas, paying a jamo of Rs. 4,228. Payment of a suitable amount of the arrears the total of which is Rs. 8,774 has been arranged for in each case by easy instalments.

In Biyana the large estate of Farsu, area 7,000 bighas, which suffered from Banganga floods has on the application of the Mahomedan owners been managed tham since 1885. The estate is now in good working order but as the old owners are incapable of managing it all, a considerable area of waste has been allotted to the zamindars of adjoining villages which had little or no culturable land subject to the payment of nazarana; certain occupancy tenants have been recognised as owners of their holdings; and the rest has been given back to the old owners.

There are six other estates in this tahsil, Nangla Bhawa, Bhagori, Samogar, Sarai Bambu, Nangla Honta, Dhareri, in which owing to deterioration by river action the settlement demand could not be paid and the State, instead of remitting or reducing the jama of the land thrown out of cultivation or injured in quality, with its usual inclination for kham management decided to make the collections kham, i.e., proportionate to the actual cultivation. The Settlement jama of these estates was Rs. 6,048 while last year the collections were Rs. 4,362 and the arrears on the nominal demand are Rs. 15,132. All these estates have now agreed to accept a fixed jama based on present conditions and any future changes will be taken account of under the diluvion-alluvion rules that will be framed.

In Bhusawar six whole estates (1) Nangla Man Singh, (2) Kotke, (3) Jat Balai, (4) Lalpur, (5) Jiwad,—all of which have suffered from Banganga inundations,—and (6) Sir Sirkar, representing the State patti in the town of Weir had come under kham management. The measures taken to control the Banganga floods have facilitated the settlement of Nos. (1) to (5). In (1) and (2) the whole area has been settled with the owners, and in (3) to (5) after deducting areas of excess waste to be leased to others for cultivation the rest has been made over to the zamindars; (6) will remain State property but fixed leases for the term of settlement have been given to the cultivators. Besides these six estates the township of Ballabgarh being the personal property of the Jagirdar is managed direct while the Jagir is under attachment and this arrangement will continue in view of its probable restoration.

There are a few other cases pending besides the above mentioned, but in all of these permanent arrangements will be made before giving out the new assessments in order to secure that no estate or holding may remain under direct management.

57. Besides estates managed kham in which the owners still live and hold Deserted shares or holdings and part of the cultivation, there is a great arrangements now made. number of estates or holdings out of those shown in para. 53 still dereliet owing to the desertion of the owners and the refusal of the heirs or relations to take them up. In Rupbas there are no such holdings. In Oochain the area is inconsiderable amounting to only 276 bighas in the three estates of Lulkari, Atari, and Tehri Brahmin, and this has now been settled generally with the old owners or their heirs or relations.

In Biyana the area still derelict amounts to 2,421 bighas in the four estates of Jhamri, Bhuga Maroli, Mehrawar, and Sheopura. In these also arrangements have been made with the old owners where forthcoming or with other agriculturists of the village. These have already been put in possession and have accepted full liability from the present kharif harvest.

In Bhusawar for reasons already explained the abandonment of shares and holdings owing to the desertion or refusal of responsibility by the owners had reached a pitch which unless seriously grappled with threatened to involve the whole tabsil. In addition to the large areas transferred under pressure of the assessment and several estates held kham, in no less than 49 estates were there 122 described holdings or shares covering an area of 19,605 bighas assessed at Rs. About 80 per cent. of these holdings had been deserted since the settlement of 1890, chiefly in the scarcity of 1895.96. Such holdings were generally managed by the tahsil through the Patwari who leased them to the zamindars of the village or to others at his own discretion. The zamindars had no interest in cultivating the land as this rendered them liable for the full assessment, which was generally excessive, whereas by allowing the land to run out of cultivation they had the benefit of the grazing and no revenue responsibility. In this way the cultivation of such lands gradually fell off, while the arrears being calculated on the nominal jama increased, and owing to both these causes no one would come forward to take up these holdings. The prompt settlement of this difficult question was however a necessary preliminary to the re-assessment. Each case was worked up by the Deputy Collector M. Hira Singh and when on tour in November last I called up the Zamindars, fixed the amount of the arrears since last settlement to be realised-generally taking onethird or one-fourth—and in this way and also by assuring them that the new jama would be distributed by soils not by shares encouraged them to assume responsibility. The cases were then made over to the Deputy Collector to perfect the arrangements, which he did with such success that the old owners were induced to return in the majority of cases and resume possession and liability, and where they were not forthcoming other Zamindars in the village or adjoining villages willingly took up the holdings. Where the owners were without adequate means Takavi was advanced to them for seed and bullocks to the extent of about Rs. 3,000. Up to 1st April 1895 deserted holdings had been settled in this manner in 44 estates. The present jama of the area so sottled is Rs 14,881, and the arrears to be realised Rs. 8,693 out of a total of about Rs. 27,527. All the remaining cases have I think been since settled.

No less than 109 of the old owners have returned—for the most part from foreign territory, and it is estimated that the result of the scheme has been to increase the number of ploughs by 300 and the population by 1,000.

58. The following table shows the population of these tahsils and of the whole State by each census since 1867.

•								DETAI	L 1N 1691 1	T SUL AND	PRLTG	ion.	
	Taheil.		1857.	1881.	1891.	1898-99.	Males.	Females.	Bindu,	Musalmsn.	Jain.	Others.	Total.
Rupbas	•••	•••	86,322	34,134	30,186	20,352	18,351	13,635	27,656	2,512	18		30,186
Oochain	***	' ***	80,504	49,849	47,735	49,412	25,585	22,180	43,047	4,239	449		47,735
Biyana	***	٠٠.	76,347	76,559	75,126	62,919	40,616	34,490	70,605	4,194	327		75,120
Bhusawar	1	•••	72,970	72,341	73,728	62,153	•••						
Ballabgarh	}	***	9,999	8,511	8,935	7,550	***		•••	•••	<u></u>		
Total	}	***	82,969	80,852	82,663	69,703	44,134	38,529	77,135	4,969	559		82,663
Total of So	uthern Tal	nsils	2,53,142	2,40,394	2,35,710	2,02,416	1,26,716	1,08,994	2,18,443	15,914	1,363		2,85,710
Total of St	ate		7,43,710	6,45,540	6,40,303	6,20,645	3,47,830	2,92,473	5,28,629	1,07,280	1,109	6	6,40,303

The official enumerations show (1) a slight decrease of 2.5 per cent. in these tabsils between 1867 and 1881, whereas the population of the whole State fell off by 13 per cent. in the same period, (2) a further slight falling off of about 2 per cent. between 1881 and 1891 the population of the State showing a decrease of less than one per cent. in that period. As a matter of fact the depopulation by drought, famine, etc., was probably as great in these as in the other tabsils, but has been disguised by the fact that since 1867, several villages have been transferred from the Bharatpur tabsil to Occhain and Biyana and from Akhegarh to Bhusawar. To be quite accurate the comparison should be based on the total population of the villages at present in each tabsil at successive enumerations, but data for this are not forthcoming. The census made during Settlement operations in 1898-99 shows a decline of over 33,000 or 14 per cent. in the population of these tahsils since 1891. This lends colour to the suspicion generally entertained that the figures of 1891 census were "adjusted"—to use a euphemistic term—in order to conceal the falling off in population. When the census of 1867 was made the State was undoubtedly, owing to the careful administration during a long minority, at the high-water mark of prosperity, and the severest comment on the revenue history since then is that in spite of an industrious agricultural population and abundance of waste land, the population of these tahsils and of the whole State so far from expanding has fallen off by over To conclude the subject of population it may be noticed that the excess of males over females is very marked and between the enumerations of 1881 and 1891 the disparity remained constant.

In these tahsils the vast majority of the population is Hindu, the percentages being Hindus 93, Musalman 6.5, Jains 5.

Famine of 1899-1900. history to a close by a reference to the famine of the prompt and liberal action of the administration in suspending a considerable part of the land revenue in granting Takavi for wells and seed, and in opening relief-works wherever required, the State though subjected to a very severe strain, has been saved from the general calamity which ruined its prosperity in 1877-78. The following table shows the weekly numbers on relief works and gratuitously relieved throughout the State since the distress took an acute form.

		1	ST WEE	E.	2	ERD WEEL	ε.		E TEN CAE	ε.	4	IU WDZ	x .	51	п 🕶	BK.
Month.		Relief works.	Gratuitous.	Total,	Relief works.	Gratuitous,	Total.	Relief works.	Gratuitous.	Total,	Relief works.	Gratu tous.	Total.	Relief vorks.	Gratuitous.	Total.
October	···	507		507	1,193	105	1,293	1,330	135	1,465	3,016		3,016			
November		1,053	76	1,129	692	62	754	300	37	397	7,494	6G	7,550	1		
ecember .		8,423	67	8,490	10,257	913	11,170	11,129	83	11,221	11,329	97	11,426			۱
anuary	<i>.</i>	12,295	81	12,376	11,832	176	12,018	11,183	237	11,420	10,500	326	10,823	ĺ		
'ebruar y	•••	10,239	37	10,325	10,870	876	11,716	11,481	769	12,219	11,567	577	12,144			
Iarch	•••		·	•••	11,391	1,015	12,426	10,955	879	11,831	7,175	2,028	9,203		•••	-
pril	***	9,293	962	10,255	10,454	965	11,419	11,456	1,029	12,484						
îsy	•••	12,341	1,007	13,349	12,650	1,025	13,675	12,130	1,016	13,146	11,909	1,103	13,013			
ane		11,598	1,200	12,717	10,607	1,148	11,815	11,016	1,033	12,049						

The numbers show a steady increase throughout the cold weather up to the end of February, in March a considerable falling off owing to the harvest operations, in April and May again a steady increase, and in June a tendency to go down as the occasional showers attracted labour to the fields. Unfortunately the delay in the advance of the monsoon has increased the tension. The distress has been greatest in and around the city of Bharatpur and in the central and northern tahsils. These four tahsils had a fairly good rainfall last year and the *kharif* crop was from a 6 anna to a 12 anna one, while there was a very fair rabi on the sweet wells which form three-fourths of the total number.

59-A. Accordingly the revenue collections have been much better than in Revenue collections of the past year and proposals regarding arrears. the rest of the State as the following figures only just received show.

		Total			BALANCE.			BAZA	NCB IN ARRI	BAB.
Tabsil.		demand revenue and cesses.	Remission for hail.	Total.	Amount realiable of which suspended.	Actual demand,	Realised.	Suspended.	Other.	Total.
		Вэ.		Rs.	E3,	Rs.	Rs.	R3.	Rs.	Be.
Rapbas	***	1,16,272		1,16,272	0,329	1,06,913	80,835	9,329	20,108	35,43
Dochain	•••	1,90,381		1,90,391	21,609	1,68,775	1,66,992	21,€09	1,783	23,89
Biyana	***	3,29,096		2,20,984	130	2,20,651	3,21,109	130	9,745	8,878
Bbasawar	•••	2,60,701		2,60,701	66,675	1,94,026	2,03,410	64,178	3,113	57,291
Ballabgarh	•••	33,032		\$3,932	5,614	29,319	31,350	3,552		2,683
Total couthern Tab	eils	6,91,273	,	-9,31,273	1,03,357	7,27,916	7,03,626	67,929	89,749	1,27,677
Percent		100	•••	100	12.5	87.5	84 5	10.2	5	16.6

•		Total			Balance.			BAL	ANCE IN ABI	BLB.
Tahsil.		demand revenue and cesses.	Remission for hail.	Total.	tal. Amount realiable of which euspended.		Realised.	Suspended.	Other.	Total.
		Rs.		Bs.	Rs.	Rs.	Rs,	Bs.	Rs.	Bs.
Kumher	•••	1,76,865	•••	1,76,865	48,353	1,28,512	1,29,143	46,678	1,044	47,722
Akbegarh	***	1,54,525	***	1,54,523	27,120	1,27,405	1,30,848	20,770	2,907	23,677
Bharatpur	•••	1,75,532	•••	1,75,532	37,592	1,37,940	1,47,402	26,287	1,813	28,130
Nagar	***	3,16,415	16,458	2, 99,957	60,957	2,49,000	2,37,872	50,629	11,456	62,095
Pahari	•••	2,54,780	2,609	2,51,971	68,581	1,93,387	2,05,073	34,857	12,041	48,609
Kama	***	1,76,712	4,440	1,72,265	45,397	1,26,868	1,06,162	43,955	22,148	60,103
Dig	•••	1,72,917	1,231	1,71,693	59,207	1,12,476	1,03,218	£9,207	9,229	68,435
Total remaining t	ahsils	14,27,746	,24,919	14,02,798	3,27,210	10,75,559	10,59,748	2,82,393	60,087	3,43,050
Grand total of Sta	ite	22,59,010	21,918	22,34,071	4,30,567	18,03,501	17,63,411	3,70,211	1,00,416	4,70,627
Per cent		,100	1	99	19	60	78	16.2	4.5	21

Thus taking the demand for the whole State—Rs. 22,59,019—as 100, one per cent.—Rs. 24,948—was remitted for damage by hail in the three northern tahsils, 19 per cent.—Rs. 430,567—was placed under suspension, leaving 80 per cent.—Rs. 18,03,504—to be collected. The actual collections came to Rs. 17,63,444 or 78 per cent., while 21 per cent.—Rs. 4,70,627—remained in arrears viz., 16.5 per cent.—Rs. 3,70,211—out of the amount suspended, and 4.5 per cent.—Rs.1,00,416—out of the actual demand.

In the four southern tahsils 12 5 per cent. of the demand was suspended, leaving 87 5 per cent. to be collected, and the amount collected was 84 5 per cent., leaving 15 5 per cent. in arrears viz., 10 5 per cent. out of the suspended revenue—some of which it was found possible and desirable to collect—and 5 per cent. out of the actual demand.

It will immensely facilitate the working of the of settlement, and remove a fruitful source of future trouble and confusion if these arrears are now disposed of. As a supplement to the proposals in para 52, for the settlement of the arrears down to 1898-99, I now propose that the arrears of 1899-1900 in those tabsils be dealt with as follows:—

Tabsil.		Rupbas.	Oochain.	Biyana.	Bhusawar.	Ballabgerh.	Total.
Total arrears		Rs. 95,437	Rs. 23,392	Rs. 8,875	Rs. 57,291	Rs. 2,682	Rя. 1,27,677
Proposed for remission	***	25,437	15,892	6,375	41,791	1,582	84,077
,, ,, realisation	***	. 10,000	7,500	2,500	12,500	1,000	33,800

Then the final result in each tahsil will be-

Taheil.	Rupbas.	Oochain.	Biyana.	Bhusawar.	Ballabgarh,	Total.
Total arrears 1890-91 to 1899-1900	Es. 1,66,060	Rs. 1,62,180	Ks. 75,525	Rs. 2, 10,245	Rs. 10,125	Re. 6,21,139
Proposed for remission	1,35,060	1,34,686	59,025	1,70,215	6,623	5,05,639
,, realisation	30,000	27,500	17,500	40,000	3,500	1,19,500

The total amount proposed for recovery is the most that the tahsils can bear having regard to their past history, present condition, and the future assessment to be proposed.

As regards the remaining tabilis, the question of the arrears of 1899-1900 will be disposed of in communication with the Political Agent and State Council.

CHAPTER III.

GENERAL STATISTICS.

Tenures and methods of distributing the revenue.

60. The following table shows the classification of estates in each tabsil according to tenures:—

							·		 i		 ;			
	1					Zamini	ABI.	PATTII	DARI.	BHAYAC	HABA.	. }	l	
TabsiL		I	De	tall,		Pure.	Joint,	Perfect.	Imperfect.	Perfect.	Imperfect	State property.	Kham,	Total.
		Khalsa	***	***		3	23	1	34		10}	1	•	73}
Rapbes	{	Ball	•••	***		•••	2	1	1	•••	ş			4}
				Total '	•••	3	25}	2	35		11	1	i	78
	(Khalsa	•••	***	***	1	16	15	43		8	3	4	83
Doohaln	- -{	Maß	•••	044	***	•••	2		6		1		•••	7
				Total	**	1	18	15	47		9	2	4	96
	{	Khalsa	•••	***	***	400	30	12	62	3	23	-1	1	153
Blyana	 {	2108	***	***	***		2	2	9		3		•••	16
				Total	•••		33	14	91	3	26	1	1	168
	,	Khalsa	***	. 40	***	1	20	7	102	1	Б	4		140
Bhusawar	***	Mad	***	***	***				6		3			9
				Total	***	1	20	7	109	1	8	4	 	149
			Os41	D TOTAL	•••	5	95]	38	281	4	+ 51	8	5}	491

The Kham estates shown are those which had not been settled when the statistics were prepared. The "State property" includes in Bhusawar (1) the estates of Ballabgarh—really the property of the Jagirdar, (2) The Sir Patti in Weir—which will be leased to the cultivators for term of settlement, (3) the estate of Nangla Man Singh now given up for cultivation, (4) the State Rund of Jiwad. Two-thirds of the estates are held, at least in theory, by shares; one-fifth are owned by a single owner or bodies of joint owners and only one-eighth are held in severalty. This question of tenure will be better understood if considered in connection with the methods of distributing the revenue demand viz.:—

Number.	Particulars.	,	Bupbas.	Oochain.	Biyana.	Bhusawar.	Total.
1	By shares	,,,	43	હ્યુ	106	101	294
2	As fixed at sottlement on land	1997	4	•••	13	3	.20
3 .	By annual soil rates	711	16	34	29	18	97
4	All-round rate on cultivation	411	10	9	1	10	30
5	Lump sums (chikota) on holdings	***	4>+	***	2	5	7
6	Mass, Inam and State property	411	5	9	. 17	13	43
	Total	•••	78	96	168	149	491

So that only 20 estates have a fixed *Khewat* or distribution over holdings; three-fifths of the total number pay the jama according to shares; one-fifth by soil rates, varying according to the cultivation of each year or harvest; and the rest either by lump sums on holdings or an all-round rate on cultivation.

61. The general system of distributing revenue liability by shares, where proprietary rights are based on shares, though Inequality of distribution by shares. specious enough at first sight is radically unsound and has been the cause of the ruin of hundreds of shareholders, and of holdings being abandoned and left derelict. Such a distribution to be equitable presupposes (1) that the original partition of the land by shares was made equally and justly, but in Bharatpur this is very far from being the case, as the strongest shareholders seized the best land and wells prior to and retained them on partition, (2) that since the original partition there has been no change of any importance in the relative revenue-paying capacity of the holdings. But this assumption too is far from correct, for in a tract like this, subject to considerable river action, and also much dependent on wells, this factor cannot remain constant over a term of years. One shareholder's well is bitter; or it runs dry, or collapses, and he is not in a position to renew it; or his land gets sanded over by a Banganga flood, and goes out of cultivation, and yet he is compelled to pay the same amount of revenue as a shareholder who has none of these disadvantages to contend with. No wonder that under such a blind rule-of-thumb system desertions have been numerous, for a great number of shareholders must be placed under a distinct disadvantage. The fact is that in former assessments no attention was given to the distribution of the State demand. The people were in theory left to arrange this themselves, which in practice meant that it was arranged for them by the Patwari with the aid of one or two pushing lambardars or shareholders who had their own ends to They have now come to recognise the evil results of the old system, and the first question asked when arrangements are on foot for the settlement of deserted holdings is whether the new jama will be distributed as before by shares—in which case no offers would be forthcoming—or by rates on the different classes of soil according to quality. When reassured on this point they were generally found willing to undertake responsibility. Even in joint estates the co-sharers are anxious to pay for the lands in their separate occupation by soil rates. Of course in such cases the first step should be a partition, but from this they have been hitherto deterred by the high fees charged and the trouble and delay involved. There are many large and unwieldy estates, still nominally joint, in which partition is absolutely necessary to put things on a proper footing, and special arrangements will be made for this as soon as possible.

62. The average land-revenue demand per estate on the present jama is in Rupbas, Rs. 1,450, Oochain, Rs. 1,941, Biyana, Rs. 1,312 and Bhusawar, Rs. 1,850. To ascertain the average on the new jama, these figures should be altered in proportion to the alteration of the demand in each tahsil. The proportions of large and small estates will appear from the following table:—

	Particulars,							Oochain.	Biyana.	Bhusawar,	Total.
Estates T	aying	g Rs. 500 or less		41)	•••		11	9	38	22	80
17	**	,, 500 to 1,000	•••	•••	***		18	14	50	31	113
**		., 1,000 to 3,000	***	***	•••		39	51	54	63	211
,,	,,	" \$,000 to 5,000	•••	•••			′ 5	10	10	18	43
,,	**	.,, over 5,000	***	•	***	٠	1	š	5	8	19
					Toral	•••	73	69	157	147	468

From this it is clear that the tract is one of moderate-sized estates. No estate pays Rs. 10,000 or over. The highest revenue-paying estates are in Rupbas—Khanwa—Rs. 5,052; in Oochain—Pichuna—Rs. 9,957, and Panghora, Rs. 7,007; in Biyana—Biyana town—Rs. 7,483, and Singhara, Rs. 7,355; and in Bhusawar—Bhusawar town—Rs. 9,500, Sarsena, Rs. 6,740.

63. The following table—extracted from Statement V—shows the cultivativativating occupancy.

Cultivating occupancy.

ing occupancy in the year 1898-99. In this and following statistics where the contrary is not stated, mafi areas have been excluded. In Bhusawar I have shown the Ballabgarh jagir separately and State property under cultivation is included as it is assessed; but in Biyana the village of Bareta, which is part of the Ballabgarh Jagir, is included in mafi.

		KUPBA	. 1	Ооппа	[BIYANA		BHUSAW		BALLAB	
		TOPBA	·			· DIIANA		DHUSAN	AR.	DILLAR	JARK.
Detail.		Area.	Percentage.	Area.	Percentage.	Area.	Percentage.	Arca.	Percentage.	Area.	Percentage.
Total area cultivated	zn.	83,019	100	1,23,593	100	1,42,060	100	1,70,378	100	20,899	100
Arez cultivated by-								į			
(1) Owners		39,835	47	48,634	38	55,439	89	63,850	37	4,814	23
(2) Occupancy tenants	•••	3,923	5	5,664	4	13,429	10	3,601	2	608	9
(3) tenants free of rent		1,705	2	2,296	2	3,891	3	5,449	3	278	1
(4) At favourable rents		159		1,682	1	375		13			
Area oultivated by tenants at will-											
(a) paying in kind	***					173		528			
(b) " Zabti rents "	***	• 3	•••	2,599	2		•••	•••	•••		
(c) ,, cash rents at owner's 1	ates	13,716	15	26,728	22	12,771	9	15,320	g	128	1
(d) , at other rates	•••	25,708	31	37,990	31	55,979	39	81,617	49	15,041	7 2
Total cash rents	•••	39,427	40	67,317	65	69,750	43	96,937	58	15,169	73
Number of owners excluding absentees		3,229		4,533		7,778		6,162	***	467	
Number of proprietary holdings	•••	672		1,359		2,173		2,422	***	152 -	
Detail,		Arca.	Jama.	Area.	Jama.	Area.	Jama.	Arca.	Jama.	Arez.	Jama.
			Rs.		Rs.		Rs.		ßs.		Rg.
Average area of cultivation		1									
(a) per holding	•••	121		82		61		70	***	137	
(b) per owner	•••	26	32	27	38	18	27	29	38	45	71
(c) per occupancy tenant	• •••	12		8		в		5		4	
(d) per tenant-at-will	•	13		ο		7		G		٥	

Thus in Rupbas owners as such cultivate nearly one-half of the total area; in the remaining three tabsils from three-eighths to two-fifths; and in Ballabgarh where all the land attached to Ballabgarh town—about one-fifth of the total—is owned by the Jagirdar and cultivated by tenants, only one-fourth.

Area cultivated by owners and size of holdings.

Area cultivated by owners and size of holdings.

Area cultivated by owners and size of holdings.

out higher were it not that the Kham villages and deserted holdings—which had not as a rule been settled in 1898-99—are shown as cultivated by tenants even when these tenants are the former owners, many of whom have now been reinstated. Besides the area of Khudkasht

shown above, many owners for various reasons, e.g., scarcity or inferiority of their own land, cultivate as tenants in their own or adjoining villages. The extent of such cultivation is as follows:—

	Detail.			Oochain.	Biyana.	Bhusawar.	Ballabgarh.
Area	***	•••	3,135	14,440	9,800	15,575	1,228
Percentage of	total	***	4	12	7	9	6

and if we add this to the area cultivated as owners, the proportion of the total area held by them comes to 46 per .cent. in Biyana, Oochain, and Bhusawar, and 51 per cent. in Rupbas which is a very good proportion.

Excluding Ballabgarh the circumstances of which are exceptional, the average area of cultivation per owner ranges from 18 to 28 bighas or 7 to 11 acres, and the land-revenue per owner varies from Rs. 27 in Biyana—where holdings are small and population relatively dense—to Rs. 38 in Bhusawar and Oochain. In the Punjab in 1897-98 the average area of cultivation per owner was 8 acres assessed at Rs. 8.

Area cultivated by different classes war, where the high assessment deterred of tenants.

tenants from urging their claims, to 10 per cent. in Biyana where much of the best well-cultivation is carried on by this class. Prior to the present settlement no enquiry had been made into tenant right. In preparing the new records registers were prepared in which all such claims were entered and disposed of by the officer in charge of the circle after full enquiry. The number of cases decided up to date has been: Ruphas—210, Oochain—824, Biyana—1,487, Bhusawar—600. In the majority of cases the claims were readily admitted by the owners who, where the assessment was heavy or cultivators few, were only too willing to admit others to share their liability. But where land was valuable the claims were often vigorously contested. Cases have also come to my notice in which at the time of attestation, the owners dissuaded the tenants from lodging or prosecuting their claims by the promise that their cultivation would not be disturbed, and the tenants subsequently finding from ejectment proceedings, etc., that they had been deceived have applied now to have their status defined.

The area held free of rent does not exceed 3 per cent. in any tahsil. It is usually so held in return for village service by Brahmins, Purohits, Chaukidars, etc., and now that the owners have come to realise that they have the discretion of including it in the bachh, it will probably fall off considerably. In Bhusawar the area held free by Mina Chaukidars in return for their duties of watch and ward is 1,415 bighas assessed at Rs. 2,500. Land held at favourable rent comes under the same category. The area is inconsiderable except in Oochain where it comes to 1 per cent. of the total.

Rents in kind, i.e., in which the owners take a share of the crop are unknown in Rupbas and Oochain and very rare in Biyana and Bhusawar. Since Moghul times the revenue in these tracts close to Fattehpur Sikri and Agra, has been generally collected in cash, and for the same reason rents have been levied in cash, as the distinction between owner and cultivator has hitherto been so slight in practice that the latter usually paid the State demand direct instead of through his nominal landlord.

In all these tabsils therefore tenants usually pay in cash, and the proportion of the total area held on cash rents runs from 46 per cent. in Rupbas to 57 per cent. in Bhusawar or in round numbers half the area is so held. It will be seen that the area held "at owner's rates" is in all tabsils much less than that held at "other cash rents". The first and natural inference to be drawn from this is that the owners generally exact rents above the standard of "owner's rates".

The true explanation is frequently the very opposite of this, viz., that the incidence of the jama is often so high, or so unequal, or so uncertain, especially where owners pay by shares, that the tenants prefer to cultivate under a Patta or written lease agreeing to pay a fixed sum. This point will be further noticed in Chapter VII.

66. The cultivators, where not owners themselves, are generally of the same caste as the owners or village menials-Caste of cultivators and different meespecially Chamars and Kolis. Brahmins, thods of cultivation. Baniyas, Kachis, and Mallis also cultivate fairly large areas. In the kharif, nonowners of all classes endeavour to cultivate a few bighas, not so much for the grain as to provide fodder for their cattle. These cultivators have often neither ploughs nor plough-oxen of their own and hire them out from the owners at the rate of 12 annas to Re. 1 per day. Those who are too poor to afford this, break up the soil with hoes and then throw in the seed which explains the saying "Tickle it (the soil) with a hoe, and it will blossom into a harvest". The Khatili lands in the beds of the streams furnish ample scope for the village menials who have no agricultural implements. They require practically no ploughing, but much manure and abundant watering, so all that is needed is a donkey to bring the manure and a rope and gharra for the irrigation from holes dug in the sandy river-bed. The total area cultivated by tenants of the above class is as follows:-

Detaile,	Rupbas.	Oochain.	Biyana.	Bhus2war.	Ballabgarh.
Number of tenants Area 100 1 111	731	2,1 63	2,835	5,416	622
	3,335	8,335	12,414	27,201	3,002

The very large area held by them in Bhusawar is a distinct evidence of agricultural deterioration and weakness, for these tenants are the first to abandon cultivation in years of drought.

Another means of testing the stability of cultivation is the area held in an estate or in a tahsil by tenants from outside. This is commonly known as pahikasht and the area so held is—

Ruybas.	Oochain.	Biyana.	Bhusawar.	Ballabgarh.
10,735	1,563	20,148	25,352	3,282

Except in Oochain where owners and resident tenants are numerous, the area is considerable, especially in Bhusawar. This cultivation is in two ways an element of weakness in agriculture—(1) it tends to lower rents for the owners being dependent on tenants from outside have to tempt them by easy terms and cannot exact the full competitive rent, (2) it is the first to be abandoned in years of drought or distress. While on this point I may note that in many villages there were not enough cattle to work the great number of kacha wells sunk as a temporary resource within the last year or two (para. 21). Accordingly many of these were worked by hand, a row of men and women taking the place of the pair of oxen in supplying the draught power.

67. There are no estates held on favourable rates of assessment or on Istamrari tenure except Jhala Tala in Bhusawar which is held by one family of the Pathan owners at a fixed Jama of Rs. 1,135, while the revenue collected was in 1879-98, Rs. 2,000. The grant was resumed in 1858 for participation

in the mutiny, but subsequently restored in the name of one of the co-sharers who has recently died without issue, and the question of its continuance to the descendants of his brothers who was also implicated in the mutiny disturbances is under consideration. The manner in which the area of Mafi and Inam in these tabsils has been steadily reduced has been explained in para. 33.

68. Statement IV shows in detail the sales and mortgages as now ascertained by careful attestation—(1) from the summary settlement of 1855 to the settlement of 1890, (2) from 1890-91, up to date. The following table shows the percentage of the total and cultivated area transferred by sale or mortgage up to date—(a) to Zamindars, (b) to non-agriculturists, and the average rate per bigha—

	1	T							 -	
		Рев ов	at. Mort	GAGED.	Рві	CENT. S	01.7).	TOTAL AN MORTO	D I	
Tahsil.	Detnil.	Total area.	Cultivated area.	Averago por bigha.	l'otal arca.	Cultivated area.	Average per bigha.	Total area.	Cultivated area.	Ebwares.
Rnpbes 🛶 {	To Zamindary	14	17	Rs. 3	8	9 1	Rs. 2 5	23 3	28 6	
	Total	10	21	4	9	. 10	2	25	31	
Oochain{	To Zamindars	11	12	4 8	8 ***	9	1	19	21	
	Total	12	13	4	8	9	1	20	22	
Biyana{	To Zemindare	1 .	8	9 7	1 •5	2 *5	2	5 1.2	10 2·5	
	Total	5	10	8	1.8	2.5	2	6.2	12.2	
Bduszwał {	To Zamindare	1 _	3	3	8 2	7	1	10 3	10 4	
	Total	3	4	4	10	10	1	13	14	
Ballabgarh {	To Zamindars	1 .	2 2	7 3	***	***	***	1	2	
ь	Total	2	4	5		114	yeb	2	4	

The figures include the transfer of whole villages or shares in them made by the State in or after the famine year (para. 54).

^{69.} The area transferred is highest in Rupbas where one-fourth of the Lotal and nearly one-third of the cultivated area by tahsils. The total area has changed hands, viz., 21 per cent. (of the cultivated area) by mortgage and 10 per cent. by sale; but only one-fifth of the mortgages and one-tenth of the sales have been to non-agriculturists. The total consideration is about Rs. 1,47,000 or 1½ years land-revenue, and averages Rs. 4 per bigha for mortgages and only Rs. 2 per

bigha for sales. The reason for this difference is that the sales were made in bad years under pressure of assessment or in payment of arrears and shares in the following villages were sold by the State—

Bansi Bagri ... ½ Bokoli ... ½ Binwan ... ½ Ahlu ½ Nangla Gujar ½ Milsua ... ½ Ibrahimpur ... ⅓ Kheriya Lodha ¾ Kundanwara ... ½ Naiagaon... ½ Noharda ... ⅓

In Oochain about one fifth of the total and over one-fifth of the cultivated area have been transferred—13 per cent. by mortgage, and 9 per cent. by sale; but of this only one-twentieth has passed to outsiders. The total consideration is about Rs. 1,11,000 or two-thirds of one year's land-revenue, and the average rate per bigha is Rs. 4 for mortgages as in Rupbas, and only Re. 1 for sales. The cause of the low rate in the latter case is the same as in Rupbas. Shares in the following villages were sold up by the State for arrears—

Karai ... 🖁 Khanera ... 🔏 Gahlau ... 🕻 Jarila ... 🖠

In Biyana the area alienated is relatively small, viz., one-sixteenth of the total and one-eighth of the cultivated area, and one-fifth of this has passed to non-agriculturists. The area (of cultivation) mortgaged is 10 per cent. and the area sold 25 per cent. of the whole. The total consideration is about Rs. 2,10,000 or one year's revenue demand, and owing to the superiority of the land in this tahsil the rate per bigha for mortgaged land comes to Rs. 8 per bigha on total and Rs. 14 per bigha of cultivated area; while the rate for sales which have generally been made for arrears or owing to pressure of assessment (para. 54) is only Rs. 2 per bigha. No transfers on an extensive scale were carried out in this tahsil by the State.

In Bhusawar (apart from Ballabgarh) 14 per cent. or about one-seventh of the cultivated area has been alienated, viz., 4 per cent. by mortgage and 10 per cent. by sale, and over one-fourth of this has been to non-agriculturists. The total consideration is about Rs. 63,000 and averages Rs. 4 per bigha mortgaged and only Re. 1 per bigha sold. Shares in 10 estates were transferred by the State for arrears, and in 33 estates by the Zamindars under pressure of assessment, and in these forced transfers the average price realised was only about 12 annas per bigha, which explains the very low rates for sales. Mortgages in this tahsil are comparatively rare, the reason being that owing to the high assessment, the agricultural depression, and the large area of deserted holdings, the demand for land has been very slack. In Ballabgarh the mortgaged area is 5 per cent. and sales are practically unknown.

Total area slienated.

70. For the whole tract the area sold and mortgaged up to date is—

	Morro	AGED.		lvated.	80	LD,`		cultivated.
Detail.	Total area,	Cultivated.	Mortgage mones.	Rato per bigda cullivated.	Total grap.	Califrated ares.	Salo monsy.	Rate per bigha cult
			Bs.	Rs.			Rs.	Rs.
To Zamindars	69,820	45,039	3,53,599	8	€0,267	91,786	63,663	3
Others on on on	15,529	11,435	01,449	8	9,952	5,733	13,074	2
			<u></u>					
Total	85,310	56,474	6,67,028	8	66,219	37,518	76,737	3

Or in other words 7.5 per cent. of the total and 10 per cent. of the cultivated area have been mortgaged—of which about one fourth has gone to nonagriculturists; and 5.5 per cent. of the total and 7 per cent. of the cultivated area have been mortgaged, of which about one-sixth has gone to non-agriculturists. In all about one-sixth of the cultivated area has been alienated, of which only between one-fifth and one-sixth has passed into the hands of the non-agricultural class. The proportion alienated is almost the same as in the central tahsils, but non-agriculturists have taken much less in these tahsils. The causes of this are manifold, viz.:—(1) There are few wealthy money-lenders. (2) Hitherto the land has had little attraction for and yielded little profit even to the cultivating owners, and was more likely to prove a source of loss than of profit to an owner who could not cultivate himself. (3) The Zomindars, though poor, endeavour and are often able to finance one another. (4) There is a strong feeling against land passing into the hands of outsiders at least by sale, and the State has recently issued orders prohibiting all alienations to non-agriculturists.

71. High assessments therefore and harsh revenue administration, heavily comparison with the Agra District.

as they have pressed on the people in the past, have in a manner protected them from expropriation. In the adjoining Agra District at the close of the 30 years' settlement in 1875, it was found that no less than 40 per cent. of the area of the district had passed into other hands than thoso who had held it at the previous settlement—30 per cent. temporarily and 10 per cent. permanently—the average prices being Rs. 7-12-0 per acre for land sold. Given a reasonable assessment and a decent revenue administration in the future, the Bharatpur zamindars will be in a better position than their neighbours in Agra, in so far as they have by the force of circumstances held on more tenaciously to their land.

72. The following table extracted from Statement I shows the total area at Increase and decrease in area.

last settlement and now (1898-99) and its classification into mafi, unculturable, culturable, and cultivated.

			Mayi ob ivam.		STATE PROPERTY.		UNCULTURABLE.			i						
· ·	Tabsil.	·		Detail.		Total area.	Total,	Califrated.	Klaisa.	Rund.	Others.	H111s.	Other roads, gardens,	Culturable.	New fallow.	Cultiyated.
Euphas	417	{	1890-91	81°	374	1,83,582	5,892 5,719	*** 8,543	1,77,700	7,011 7,001	 890	12,861 13,769	11,094 9,273	5 5,880 5 7,110	39,300 5,701	51,516 63,049
Occhain	***	{	1890-91 1899-90	***	***	2,33,870 2,32,090	31,26 ₈ 20,377	19,907	2,02,611 2,03,622	1,379	861 1,018	5,001 6,834	15,322 10,233	27,773 53,600	49,291 6,713	1,02,951 123,693
Biyana	,	{	1890-91	***	•••	5,02,672 5,01,103	30,967 30,671	19,603	4,71,6 05	850 290	1,786 2,401	3,48,045 1,62,967	63,993 86,897	60,732 75,181	42,133	134,561
Bhasawar	•••	{	1890-91	ga+ ga+	•••	3,37,163 3,37,594	21,398 20,636	14,869 15,241	3,15,705 3,16,959	4,453 4,458	265 263		3,459	25,823 48,118	4 5,104	168,596 170,378
Ballabgath		{	1899-99	**	•••	87,816 86,409	2,327 2,010	1,025	35,489 31,399	***	100	_	179 4,228	2,412 4,074	6,183 717	19,740 20,690

The total area shows nowhere except in Ballabgarh a variation amounting to one per cent. The maps of last settlement as explained in previous reports have been retained and the areas checked, while all changes in fields, etc., have been brought up to date. The maft area shows a slight decrease in all tahsils and a considerable decrease in Ballabgarh. The decrease is due partly to resumption and to correction of areas. In Oochain it would have been greater were it not that 1,925 bighas wrongly entered as khalsa at last settlement have now been classed as maft. In Bhusawar the village of Jahanpur, the revenues of which are divided between the maftdars and the State, has all been shown as khalsa and so has the Istamrari village of Jhala Tala (para. 67), but allowance will be made for this in calculating the assessments. The reduction of area by more accurate measurements, and the changes in revenue-free area explain the slight increase and decrease of the khalsa area.

Coming to the subdivisions of khalsa, the first is "State property" which in its turn is subdivided into "State Runds" and "other," i.e., roads, gardens, Part of the Rund area is being allotted for cultivation in Oochain and Bhusawar, but as the property has not yet passed, it is still shown as belonging to the State. The unculturable land is shown under the headings of "hills" the area of which has increased slightly owing to more correct classification, and "other unculturable," e.g., sandy or stony wastes, river-beds, ravives, nalas, village-roads, tanks, etc., the area of which shows a decrease in Rupbas and Oochain but a great increase in Biyana, where large areas of the land returned as culturable at last settlement are now quite unfit for cultivation. Culturable land, i.e., old banjar shows a greater or less increase in all tahsils but Bhusawar, owing chiefly to the fact that much of the "new fallow" of last settlement which has not since come under cultivation is now included under the heading of "culturable". The most striking fact in the present classification is the enormous falling off of "new fallow". Apparently at last settlement all land that had at any previous time-no matter how far back-been under cultivation, but was then found to be out of cultivation, was classed as "new fallow". Most of this land has now gone to furnish the great increase in . cultivation in Ruphas and Oochain, some has been included in old banjar, and only so much has been shown as 'new fallow' as has actually gone out of cultivation within the last three years.

73. Finally coming to the cultivated area, the expansion in Rupbas and Gross and not increase in cultivation.

Oochain is enormous, in Biyana substantial, and in Bhusawar appreciable. To arrive at the net increase in cultivation for assessment purposes, we must however deduct the area due to resumption of mafis. This is done in the following table:—

Tahsil.		T. tal increased in cultivation.	Deduct resumed mans.	Add thalsa now included in musi.	Net increase.	Percentage of increase.	
Rupbas	***	31,504	120 .	*49 024	31,394	61	
Occhain	•	20,612	2,491	1,471	19,592	19	
Biyana	***	7,499	456	*****	7,043	5	
Bhusawar	•••	3,782	825	163	3,120	2	
Eallabgarh		1,159	36	******	1,123	6	

The area of cultivation is that which was actually sown in the year 1898-9, which was rather below than above the average at least as regards rabitowings, and it may therefore be accepted as the basis of our calculations without rick of error. Even if we take the area sown last year, 1899-1900, it shows a slight increase in Bhusawar and Ballabgarh, has remained constant in Biyana, fallen off slightly—by 1,000 bighas—in Rupbas, and considerably—by 8,000 bighas—in Oochain, but that was an extreme case and may be left out of consideration.

74. The following table shows that the area of culturable land, viz., banjar Arrangements for the leaving of culturable waste for cultivation.

		Tahsil.		≜ rea.	Percentage to cultivated area,	
Rupbas	***	•	***	•••	68,441	. 78
Oochain	•••	•••	***	•••	60,322	49
Biyana	***	•••	,,,	•••	86,717	60
Bhuşawar	•••	***	***	••.	71,600	41
Ballabgarh	•••	•••	•••		4,791	23

Some of this will probably be brought under cultivation without delay under the arrangements now made for the settlement of *Kham* estates and deserted holdings. But even excluding this and allowing a considerable area for pasture requirements, many villages have still large areas of good culturable land, which, unless special arrangements are made, they are never likely to turn to useful account. In such cases I have followed the principles approved last year for bringing into cultivation the excess waste in Bharatpur tahsil, and after making liberal allowances for grazing, etc., have marked off the excess waste in several villages and given it out for cultivation at lenient rates, which vary according to the circumstances of each estate or tahsil but as a rule are as follows:—

1st year	***	•••	• • •	4 annas per bigha.
2nd year	***	***	***	6 do. do.
3rd year	•••	***	***	8 do. do.
4th year	•••	•••	147	10 or 12 annas to the expiry
-				of the settlement.

Where the zamindars of the village can prove that they are in a position to break up the land and pay these rates, the lease is given to them by preference. Where they are too poor, too weak, or too indolent to undertake the responsibility, arrangements are made with zamindars of neighbouring villages, if forthcoming, and where this resource fails, with agriculturists from British territory or adjoining States. The areas so marked off to be separately leased are—

	Таһ	sil.		No. of villages.	Area.	Remarks.
Rupbas	•••	***	***	8	7,790	
Oochain	•••	•••		10	8,767	Including land allotted to
Biyana	•••	•••	***	2	1,750	criminal tribes.
Bhusawar	•••	•••	***	14	11,543	Of this 2,500 bighas has been allotted from State Runds.
		•				
		Total	•••	35	29,850	•

The revenue from this source which after a few years will be about Rs. 20,000 has been left out of consideration in Chapter IX.

The arrangements have now been completed in nearly all cases and the lessees put in possession with effect from the present *kharif* harvest. Given a good start, *i.e.*, favourable rains this year, I anticipate that the measure will bring about a rapid increase in cultivation and it will also act as a stimulus to the agriculturists of those villages which from one cause or another have hitherto failed to make good use of their culturable land. In Biyana the land shown as culturable is generally of inferior quality and hence in only a few villages have *chakks* been marked off.

75. The following table shows the details of the cultivated area at last Former and present cultivation by settlement (1890-91) and now 1898-99:—classes.

Tabsit,				снані.								SAIRA	BA,			BARANI										
		Period.	Total cultivation.	PERMANENT.			Сна				,															
				Hal,	Sabika.	Temporary,	Hal.	Sabika.	Total.	Khatili.	Hal.	Sabika	Barishi.	Total.	Barani.	Bhur,	Total.									
		1890-91	51,515	11,727	3,587				15,314		•••	404		18,121	22,592	515	23,107									
Rupbas	••{	1608-00	63,019	6,756	4,621	1,658	1,255	196	14,496	272	4,972	11,401	250	16,623	43,528	8,140	51,568									
Oochain	 {	1890-91	102,981	30,299	7,654				37,953		•••	•••		18,217	46,811		45,811									
0004414	**{	1693-99	123,593	17,102	6,571	307	6,771	1,235	32,006	260	,31,768	14,417	490	46,725	41,700	2,002	44,603									
Biyana	{	1690-91	134,561	44,830	7,832				52,671		***	***		18,411	63,479	•••	63,479									
•	1	1899-99	142,060	35,263	7,599	1,000	2,798	200	40,930	<i>5</i> 90	12,556	3,602	1,827	17,995	61,878	14,678	76,556									
Bhusawar	{	1890-91	166,596	55,172	14,757				69,929	562	4,162	943		5,105	91,000	***	01,000									
Dausanat III	{	{	1	ĺ	1	ì	ì	1	```{	(1893-99	170,378	40,133	13,906	602	2,427	6	57,074	482	8,408	,253	363	9,114	80,967	13,741	1,03,703
Ballabgarh	}	1890-91	10,740	8,177	1,270				9,417		,	•••	l. 	168	10,105		10,105									
	<u> </u> {	1698 99	20,899	7,189	1,546	143	115		8,092		***	229	65	293	7,012	4,683	11,624									

The causes of the increase and decrease of the different classes have been commented on in paras. 19—21 and in the remarks on the different tabsils. As the classification at last settlement was a very rough one, it is difficult to compare the subdivisions of each class, chahi, sairaba, barani, but the totals for each class can be compared. The chahi hal of last settlement should be compared with the sum of chahi hal, temporary chahi and chahi-sairaba hal now. The comparison shows that not only has the total chahi area decreased, but also the area actually irrigated within one year. The reason as already explained is not a contraction in the number of wells but in their irrigating capacity owing to the recent drought.

The khatili area was separately shown at last settlement only in Bhusawar where it now shows a slight falling off.

At last settlement the sairaba or inundated land was not distinguished as now into (1) hal, inundated within the year, (2) sabika, within the last five years, (3) barishi, benefitted by drainage from the hillsides. But if we compare the total areas excluding barishi which is merely a subdivision of barani we find—(1) a considerable increase in Rupbas where however most of the sairaba is now sabika owing to insufficient rains and neglect of the bands, (2) an enormous and genuine increase in Oochain which has benefitted more than any other tahsil by the extension of irrigation works, (3) a slight contraction in Biyana where the Bareta band was not in full working and the old bands had not yet been repaired in the year 1898-1899, (4) a considerable expansion in Bhusawar owing to the extension of irrigation by new works such as the Haleyna canal and the Lalpur band. In making the comparison with last settlement I have not included chahi-sairaba as it was then included in chahi, but in taking a survey of the area now benefitted by inundations or irrigation works it should be included, as it receives considerable benefit in this way.

The barani land has increased considerably in all tahsils owing partly to the contraction of chahi, partly to the extension of cultivation. Barani and bhur have now for the first time been discriminated. The barani cultivation is 61 per cent. of the total in Ruphas, 36 in Oochain, 54 in Biyana, and 61 in Bhusawar.

76. The barani crops however are a more important factor than even the Comparison of chahi, sairaba and barani areas with chahi, sairaba and this point more clear, I show both the culbarani crops.

To make this point more clear, I show both the cultivation and crops classed as chahi, sairaba.

raha	harani i	n the	vear	1898-99.
/ HUW,	OCH CHE I	TT OTTO) car	TOOO.

Tahsil	i .	Detail.		Total.	Chahi.	Chahi-sairaba	Sairaba.	Barani.	Percentage of crops to cultivation.
	ن ا ن (Cultivation	•••	63,049	13,035	1,451	16,895	51,668	
		Percentage	•••	10 0	16	2	21	- 61	
Rupbaa	{ 	Crops	•••	88,918	8,352	1,599	5,945	73,052	107
	ί	Percentage		100	9	2	7	82	
	(Cultivation	•••	1,23,593	23,980	8,026	46,985	44,602	
	1	Percentage	•••	100	19	7	38	36	•••
Oochain	• 1	Crops	•••	1,33,141	17,559	6,915	38,557	70,110	105
	ţ	Percentage	***	100	13	Б	29	53	•••
	ŗ	Cultivation	••	1,42,060	43,862	3,068	18,574	76,550	
	.]	Percentage	•••	100	31	2	13	54	
Biyana	••• î	Crops	•••	1,60,313	38,691	2,955	15,859	1,02,838	113
	ŧ	Percentage	•••	100	24	2	10	61	
	ŗ	Cultivation .	•••	1,70,378	54,641	2,433	8,596	1,03,708	
	Į	Percentage	•••	100	32	1	6	61	•••
Bhusawar	••• 1	frops	••.	1,79,596	42,752	2,274	9,373	1,25,197	105
	ł	Percentage	•••	100	24	1	5	70	•••
•	ſ	Cultivation	••	20,809	8,877	115	283	11,624	•••
	ļ	Percentago	•••	100	42	1	1	. 56	•••
Ballabgarh	1	Crops	41.	23,195	7,592	108	61	15,131	111
	l	Percentago	•••	100	34		•••	68	

The result is that in the year 1898-99, no less than 82 per cent. of the crops in Rupbas, 53 per cent. in Oochain, 64 per cent. in Biyana, 70 per cent. in Bhusawar received no aid from wells, canals, or floods, but were grown purely as barani. Of course the figures hardly represent a normal year, as the excess of barani crops over barani area is in a measure due to dry crops having been sown on chahi or sairaba lands, which if the well water were more abundant and the bands had filled would ordinarily have borne chahi or sairaba crops. The figures are instructive however as proving the apparent paradox that the less the rainfall the more are the crops dependent on it, owing to the failure of other sources of irrigation.

77. The last column of the statement shows the extent to which land is double-cropped. Even in an indifferent year, the area of crops exceeded that of cultivation by 7 per cent. in Rupbas, 8 per cent. in Oochain, 13 per cent. in Biyana, 5 per cent in Bhusawar, and 11 per cent. in Ballabgarh. In this respect this tract is superior to the central and northern tabsils and the reason is to be found in the superiority of the wells the great majority of which have sweet water. The soil too is a light clean loam free from reh or kallar, fertile and easily worked, and if manured it lends itself particularly well to double-cropping. The most ordinary forms are bajra and in places maize followed by barley or wheat on chahi or by gram in barani lands, and cotton followed by zirā.

78. The methods of agriculture are the same as those described in previous reports. In this tract most of the zamindars' labour is concentrated on the well lands which are invariably manured and weeded and the tillage is generally superior to that of the northern and central tahsils. When going round Biyana in

March last as the rabi was being reaped it was quite exceptional to see a single weed among the well crops, which in the central and northern tahsils at least on bitter wells are often choked with weeds. This absence of weeds is due as much to the clean soil and sweet water as to the weeding. The barani cultivation on the other hand is rather rough, but manure is now being used more and more especially for bajra and cotton. Rabi barani crops, gram and sarson, are little grown as the winter rains are very uncertain, and the autumn crop is comparatively secure. The drainage from the hills is partly held up by the great number of bands in the hill villages, but much more might be done if small bands were made along the field boundaries as in the hilly tracts of the northern Punjab. These would arrest the passage of the hill-water with its fertilising ingredients, and level and improve the soil, which now is apt to deteriorate because the surface is often carried away by the rush of water.

79. Among the special crops grown may be mentioned (1) zira or cuminspecial crops zira, Mehndi, betelleaf. seed grown as a second crop generally
after cotton where water is sweet but
scarce and most commonly in Biyana and Bhusawar, (2) mehndi or henna
which is grown in a few villages close to Bhusawar and Biyana, (3) pan or
betel leaf which is cultivated with great success in five villages—Umrend and
Bhagora in Bhusawar, and Khareri, Bagrain, and Khan Khera in Biyana. As
this is the only part of the State where mehndi and pan are grown, the method
of cultivation, etc., may here be described.

Mehndi.—The seed is soaked for ten days in water, then sown broadcast—often with another crop—and manured. Within two years the shrub grows to a height of about a foot. It is then transplanted and watered and grows to a height of another foot within the next eight years. The plant lasts for 40 or 50 years, and if well pruned, manured, and watered, yields two crops of leaves each year. The leaves if soaked in water and then applied to the hands or face yield the peculiar henna dye so commonly used by Hindus in marriage ceremonies. They are also used for medicinal purposes. The yield is from one to two mans per bigha.

The cultivation of pan or betel leaf is a source of considerable revenue to the State. It requires a good soil, sweet water, and protection from the wind and from extremes of heat and cold. Hence it is grown generally under the shelter of hills. The cultivators are known as Tambolis and are quite distinct from the owners of the land, but they have a prescriptive right to grow the plant on whatever land they please on condition of paying certain rent and dues to the owners of the land and to the State, as well as duty on every man sold whether within or without the State.

The first step is, having selected a suitable situation close to a sweet well, to erect a rectangular shed of loose stones 8 to 10 feet high, and about 200 feet long, by 80 broad, roughly thatched with grass or sarkanda. This is known as a bareja. Within this are fixed long rows of light stakes made of bamboos, dhauk or other available wood, up which the plant is trained like a creeper. These are in parallel rows, 11 feet apart, the distance between each stake being about 4 A double row is known as a pali, and a bareja contains from 20 to The soil is richly manured and then prepared with the spade. this the betel leaf is planted in the month of Chait. It soon throws out fresh At this stage the young plants are leaves which trail themselves up the stake. sprinkled with milk and wheaten flour, and the soil is fertilised by the application of sesamum oil and oil-cake in the summer and of sarson oil in the winter. All this time the plant is being carefully watered, 5 or 6 times a day in the hot weather and at intervals of a couple of days in the cold, by a man who passes down along the parallel rows, i.e., the pali, and lets the water flow gently from an earthen gharra which he carries on his shoulder using the palm of his hand to temper its force.

In Jeth (June) the plucking of the new leaves begins from the root upwards. The original plant yields about thirty leaves in the course of two years, after which the bareja is exhausted for the time being and is given up for a year or two, ordinary crops taking the place of the pan in the meantime. While the bareja is working it is most carefully guarded and no one but the

Tamboli is allowed to enter. A single bigha ($\frac{2}{5}$ th of an acre) will contain 72 palis which in two years will produce 21,600 leaves each or 15,55,200 to the bigha. Of these leaves 9,167 go to a man which sells usually for Rs. 9 and pays a duty of 1-8-0 to the State. In two years therefore the produce of a bigha will sell for Rs. 1,530 besides paying Rs. 255 duty. The cost of working a single pali or double row of plants is as follows:—

						Rs.	Α.	Ρ,	
(1)	wood and erection	•••	•••	• • •		1	0	0	
(2)	straw		•••		•••	0	4	0	
(3)	seed	•••	•••	***		0	1	0	
(4)	watering	•••	•••	•••	•••	1	0	0	
(5)	Lag Pahota 15 ann	$\int \frac{1}{2}$	to the State	1st year	•••	0	7	0	
(0)	Tue ranous to will		to land-owner	and year	•••		8	U	
(B)	State rent fall moss	to the S	Stata) Re 1 10	o flst year	•••	0	11	0	
(0)	State rent (all goes	00 110 4	20000) 1151 1 10	2nd year	•••	0	15	0	
			`	Total Rs.	144	4	14	0	

or Rs. 351 per bigha. This does not include the cost of erecting the outer wall of stone or the wages of labour. Of these charges, (4) for watering, i.e. filling the reservoir from the well goes to the owner who also receives half of the lag or duty known as Pahota. This is said to be a payment for the grant of the wood free and as the betel-growers have now to purchase it, this tax the propriety of maintaining which was referred to me in 1897 should now be remitted.

The pan of these villages is famous and is exported to Jaipur, Agra, Dehli, etc. The leaves retain their freshness for three months. Mixed with the betelnut of Burma, lime, katha (catechu) and the aromatic elachi they form the delicacy so favoured by the people of Hindustan.

The total area covered by barejas, the area actually under the pan, and the revenue derived by the zamindars and the State are shown in the following table.

\					RED BY	ACTUALLY IN 18	T PLANTED 93-99.		AGR CD	нау	rigt inc From i		State	
Name of villages.			Агеа.	No, of barcjas.	Area,	No. of barejas.	Arca.	No. of patis.	Revenue.	Cesses.	Pahota.	Total,	Customs duty.	
,										Rs.	Rs.	Rs.	lis.	Bs.
Kharera	4+4	•••	•••	65	130	28	49	32	859	1,191	245	215	1,641	h
Bagrain	•••	•••	•••	40	80	19	32	17	453	492	ın	57	650	4,252
Khan Khera		•••	•••	30	41	22	. 27	22	321	261	65	40	306	<u> </u>
Umrend	***	•••]	67	112	19	30	18		461	120	199	770	1
Bhagora		•••		8	17	1	2	2	•••	17	4	12	33	\$1,170
•		TOTAL		210	380	78	140	80	•••	2,402	645	522	3,469	5,422

Thus the average annual income to the State from the 80 bighas actually under this plant is Rs. 3,469 or Rs. 43 per bigha from the land in the form of revenue, cesses, and lag pahota, besides Rs. 5,422 as customs duty, giving a total of Rs. 8,891. The income to the land-owners from their half share in the lag pahota is Rs. 522, and they are also paid for the use of the water and get lambardari dues on the land-revenue, while they pay nothing to the State for the land as long as it is under the betel-leaf. The actual growers get certain exemptions from the State—(1) 5 palis in every bareja are exempted from taxation, (2) they are given small sums for pugris, etc., (3) they are allowed $4\frac{1}{2}$ annas per pali for malba or village expenses, and I anna per pali as II akk II therei, or allowance for the headmen.

The crop therefore, limited though the area is, is a very paying one to the State, and the expansion of the area should be encouraged. The best way to do this would be to remit the lag pahota as already proposed, and in place of the numerous petty cesses now levied to impose the usual cesses of 2 pice per rupee for dami or Patwar fund and 3 pice per rupee for local rate. These will come to only Rs. 7-11-0 per cent. on the land-revenue, while the present cesses come to over 20 per cent. The taxes now levied press heavily on the growers

and leave them only a small margin of profit. The rates vary in different villages, and the system of taxation and account is unnecessarily complicated. If this is done the land revenue and the customs duty can be maintained at their present rates, and the malba and hakk mehtari continued as before.

80. In para. 18 (b) (2) reference has been made to the system under which mango trees have been planted in husawar and the income derived from them. A similar custom obtains in Biyana town where any person may plant a tree in another man's land, and thereby is entitled to get half the fruit, the other half going to the owner of the land. In Biyana the State formerly claimed a share of the fruit, but in 1890 commuted this for a tax of Rs. 1-2-9 per thousand which yielded an average income of only Rs. 30 or so against Rs. 1,903 in Bhusawar. In 1896 this tax was remitted. The total number of mango trees in khalsa land in each tabsil and the income from sale of this fruit as now roughly ascertained is as follows:—

Tahsil.		Number of trees.	Income to owners.	Former average income to State.	Remarks.
Raphas		358	Rs. 29(1)	Rs. Nil	(¹)From 59 trees in one village.
Oochain		1,379	798	•••	
(1) Town		947	800	30	
Biyana (2) Other place	es	161	261	4	
Bhusawar		9,329	6,114	1,903	
Тота	L	12,174	8,002	•••	

The income as stated by the zamindars has been compared with that obtained from trees which are State property. Thus in Biyana the average income from 417 State trees is Rs. 401 or Re. 1 per tree. As stated in para. 15, I propose to take account of this source of income in assessing villages, and show the demand for it separately, so that where the owner of the tree is not the owner of the land, he can be made to pay his fair share.

There is some income from the ber or wild plum in Weir and in four villages close to Biyana where the fruit is cultivated in gardens, but it is too small to be taken account of in assessing though it will be allowed for in the distribution. Mahua trees from the flower of which liquor can be distilled are fairly common in all tahsils, but bring in no appreciable revenue.

81. The following table shows the number of cattle, carts, etc., as recorded in the papers of 1899 and as now ascertained by a special enumeration in 1898-99.

												CATTLE.		•		
Tainil,	4		Detail.	•	Hou es.	Ploughs	Carts.	Oxen.	Cows.	IIo-buffal .cs.	She-buffaloes,	Goats and sheep.	Horses and ponies,	Nules and donkeys,	Camels.	Torac.
Eupba s	(1890			4,517	1,991	50	3,783	8,129	1,571	357	3,196	277	265	9	17,537
	1	1698-99	•••	***	6,333	2,915	253	5,265	13,136	<i>5</i> ,300	1,019	5,616	499	\$20	23	31,425
Oochsin	··· (1500		•	8,975	3,741	64	7,374	14,162	2,605	879	5,611	626	421	42	31,723
•	,	1809-90			9,695	4,451	331	12,654	17,258	8,736	3,144	8,662	570	1,211	53	62,333
Ваузпа	_ {	1830	•••		11,099	5,301	80	10,817	23,411	9,576	953	17,290	597	468	607	C3,718 ·
	(1505-93	. •••	•••	11,218	5,501	201	13,538	29,363	16,620	2,183	30,828	737	1,451	C03	91,333
Bhusawar	!	1890	•••		11,076	4,352	29	8,723	18,900	930	5,764	8,215	\$99	337	108	43,516
	7	1503-00	•••		13,052	5,219	432	13,522	21,819	3,001	12,000	14,604	6 96	1,571	132	67,691
Ballabgarh	\$	1990		***	1,497	475	115	510	1,933	118	632	1,959	42	12	47	6,718 .
• • • • • • • • • • • • • • • • • • • •		162,3-83	•••	***	1,737	c 25	53	1,264	2,193	73	1,562	2,326	45	161	5	7,628

Assuming the figures of last settlement to be correct, there has been an improvement under almost every head in each tahsil. There probably has been some increase but by no means as great as the figures would show, as the statistics of last settlement were undoubtedly incomplete. The increase in ploughs is probably genuine and is of course due to the expansion of cultivation. number of cattle in all tabsils was in 1898-99 if properly distributed more than adequate for agriculture and the requirements of the people in the way of milk, ghi, etc., but in para. 66 it has been shown that there are many cultivators who have no cattle of their own. In Biyana and in the hilly tracts of Bhusawar and Rupbas, which are owned chiefly by semi-pastoral Gujars, the large areas of waste enable them to keep immense herds of cattle, sheep, and goats. I fear however that the drought of the last two years though not nearly so severe here as in other parts of Rajputana has caused a sensible decrease not only of the surplus cattle but of plough and well bullocks, the extent of which can only be ascertained from a fresh enumeration which I propose to make The State must now come to the rescue in such cases and in this autumn. its own interests as well as those of the people help them with Takavi for the purchase of agricultural stock. The average area of cultivation per plough is in Rupbas 29 bighas, Oochain 32, Biyana 30, Bhusawar 35 bighas, or from 12 to 14 acres, which is not excessive, and is practically the same as for the whole Punjab. Since the enumeration was made there has been a further increase of ploughs owing to the measures taken for the settlement of waste or derelict lands.

Pasture land and State Runds. is shown in para. 72, and in all tabsils is adequate or in excess of the wants of the people. The area of State Runds, which after the grass necessary for State purposes is got together is let out for grazing, is insignificant except in Rupbas, where the large Rupbas Rund with an area of 7,001 bighas furnishes good pasture to Rupbas and the vicinity. Of the 4,458 bighas of Runds in Biyana only 1,500 bighas are being retained to furnish pula for the State and the rest is being leased out for cultivation. Biyana has only 2 small Runds with an area of 290 bighas, and Oochain has one Rund—Karka—with an area of 1,450 bighas which will also be probably given up for cultivation.

82-A. The hillsides in the southern tahsils as throughout the whole State are included in the village boundaries and Hills and arboriculture. regarded as the property of the zamindars. In theory it would have been a better arrangement had the State retained a considerable portion of the hills in its own possession, and worked them as forest reserves, but after what I have seen of the abuses and the hardships to the people incident to such a system in Alwar, I would hesitate to propose its adoption for Bharatpur. Besides it would be unpopular and unjust to deprive the people now of rights which they have held unquestioned for so long a period. In view of the evil results of de-afforestation I think however it is desirable that the State should secure the services of a Forest Officer for a few months, who would inspect the various hillsides and report on the measures to be taken to prevent further denudation and promote the growth of suitable shrubs and There is still one relic of State ownership, viz, a tax is levied (lag punchri) on the grazing of goats and camels. In some cases this is levied only on animals from foreign territory. The question of maintaining this tax has been referred to me, but I shall defer giving an opinion till I have fully inspected the Dang tract next cold weather.

S3. Villages with large pasture areas derive some income from grazing fees
Income from grazing and spontaneous from outsiders and from sale of grass.
During the last cold weather all the tract adjoining the Banganga was overrun by immigrants from Jodhpur and Bikanir whose enormous flocks of cattle, sheep and goats, ate up much of the pasture that the zamindars were relying on for the support of their own cattle

Pala grows in profusion where the soil is a sweet clean loam, and here as elsewhere furnishes valuable fodder especially for milch cattle. Pula is

found in abundance in the sandy lands along the course of the Banganga and Gambhir, and always commands a ready sale, as the houses of all classes are thatched with it and the huts of the poorer classes are often made exclusively from it.

The income from the sale of pala and pula, from grazing fees, and waternuts (singhara) grown in village ponds is estimated as follows:—

	Article.		Rupbas.	Oochain.	Biyana.	Bhusawar.
			Rs.	Rs.	Rs.	Rs.
Pala	•••	•••	140	508	382	1,993
Pula	•••	••• {	157	1,514	1,126	1,826
Grazing fees	•••	•••	467	1,020	303)
Sales of grass	•••	•••	32	433	1,432	846
Water-nuts	•••	•••	140	28	137	180
	Total	•••	936	3,503	3,380	4,845

84. Among miscellaneous income that from sales of milk and ghi and in Biyana of wool is the most important.

Accurate information on the subject it is impossible to obtain but it is estimated to be as follows:—Rupbas, Rs. 30,000; Oochain, Rs. 40,000; Biyana, Rs. 75,000; Bhusawar, Rs. 50,000; of which probably from one-half to one-third goes to the landowners. This income will be sufficiently taxed by imposing a rate on new fallow and culturable waste.

Carts are fairly numerous in all tahsils and the owners make a considerable income from them by the carriage of stones from the quarries in Rupbas and Biyana to the railway at Bharatpur and Agra. The number of carts so employed and the average income is as follows:—

	Tahsil.	,		Number of carts.	Income.
	,	**			Rs.
Rupbas	•••	•••	•••	80	5,000
Occhain	•••	•••		61	4,000
Biyana :	***	•••		50	3,000
•			ļ		
		Total	•••	191	12,000

In Paharpur and Mahalpur-Chura the zamindars get one anna for every cart-load of stone that leaves the quarries, and as the average is 5,000 carts in the year, the revenue from this source is over Rs. 300.

85. The following table shows the average exports and imports of each tabsil and the customs duty paid to the State as far as can be ascertained from Exports and imports. the records of the Customs Department :-

the recor	us or the			_								
Tahsil.	Detail.	Grain, rice, etc.	Cotton ginned.	Oll-seeds.	Country cloth.	Betel.	Miscellaucous (zira).	Total.	Ght.	Number of cattle.	Total value.	Custom duty.
								}			Bs.	Rø.
•	Imports in mans	5,441		2	31]				378		***
l	Exports in mans	5,727	259	5,254	•••				333	1,020		11,120
Rupbas <	Value of exports in Rs	9,163	1,799	,21,016	2,106			41,606	6,760	6,207	54,573	***
ì	Imports in mans	29		•••				··· . }	•••	90		
	Exports in mans	10,978	4,295	3,149	25			•••	111	1,256	***	9,025
Oochain	Value of exports in Rs.	17,565	41,342	12,596	366			81,158	2,220	5,249	89,626	:
	[Imports in mans	3,760	1		13			` •••	***	29	•••	14,549
D '	Exports in mans		6,721	563	193	***	***		316	5,304	•••	14,030
Biyana	Value of exports	8,862	66,646	2,248	5,247			94,537	6,320	13,245	1,14,102	
	(Imports in mans	3,015	3	20	62				4	232	***	
	Exports in mans	1	7,385	1,527	533	35,130	2,917		1,762	3,609	•••	28,558
Bhusawar	Value of exports	i	71,342	6,108	17,213	35,130	14,585	188,802	35,240	17,277	241,319	

The details are too numerous to be shown in full but the totals are correct. In the case of Rupbas, Oochain, and Biyana the figures represent the average of the four years, 1896-1899, three of which were years of scarcity in which there was little surplus available for export, and the volume of trade was therefore abnormally small. In Bhusawar the average is struck for the period 1891-99 which includes fat as well as lean years, and the exports average nearly 21 lakhs which is almost equal to that of the other three tahsils combined. for the four tahsils have a value of over 5 lakhs per annum of which the most important in order of value are cotton, grain, oilseeds, ghi, zira, betel-leaf, livestock and country cloth. The chief imports are raw and refined sugar, rice, wheat, foreign piece goods. The customs duties for the whole tract average over Rs. 60,000 per annum, but though a source of considerable income to the State, they are a terrible drag on trade and harassing to the people. When the finances of the State recover sufficiently from their present depression the earliest opportunity should be taken to abolish export and import duties as has been done with such good results in the adjoining Alwar State.

86. The only towns of any importance Towns, Schools, Dispensaries. which are centres of local trade are-

		•				Population
D -l				•••		1,987
Rupbas	•••	`	٠		***	1,971
Oochain	•••		•••	•••		8,085
Biyana	***		•••	•••	***	7,419
Bhusawar	•••		•••	***	•••	
Weir	•••		•••	•••	•••	6,824
Ballabgarh	•••		•••	•••		1,594
2741						

An account of these will be found in Lala Jawala Sahai's history of Bharatpur. Rupbas, Biyana and Weir are places of historical and antiquarian interest. в-20

It has recently been proposed to break up the Oochain tabsil and transfer its villages to Rupbas, Biyana and Akhegarh with a sub-tabsil at Oochain, and also to transfer the headquarters of Bhusawar tabsil to the more suitable site at Weir, leaving a sub-tabsil at Bhusawar. These schemes have been sanctioned and will probably be carried out within the present year.

There are two dispensaries in Bhusawar, viz., at Bhusawar and Weir, and one at the headquarters of each of the other three tahsils. Now that the post of Agency Surgeon has been re-established, an improvement in the hitherto slack and defective medical and sanitary administration may be confidently anticipated.

Schools are maintained by the State at the headquarters of each tahsil, as well as four or five in the larger villages, but education has been much neglected, and while the State in 1897-98 spent nearly 6 lakhs or about one-fourth of its income on the army, the education budget was only Rs. 26,000 or about one per cent. of the income.

The State by consenting to the introduction of British post-offices has put the postal arrangements on a sound footing and all these tahsils are now efficiently served.

* 87. The people of these tahsils are on the whole peaceful, frugal and industrious; more simple and truthful and less litigious than the Meos of the northern tahsils, so that the task of preparing a

correct record of rights was a comparatively easy one. Given normal seasons and a reasonable jama, these tahsils, having a good clean soil and a large area of cultivation protected by sweet wells or benefitted by the annual floods, should be the most prosperous in the State, but for the last 18 years while the northern tahsils under a fairer jama have prospered considerably, these have deteriorated. The standard of comfort is probably lower now than it was 25 years ago. The people are as a whole indifferently housed, poorly clad, and their food if sufficient is generally of the inferior grains. Owing to the abundance of cattle milk is plentiful, but meat is consumed only by the Gujars, Rajputs, and Musalmans, while ghi though produced in large quantities is like the butter of the Irish or Normandy farmers looked on as a means of paying the revenue or rent rather than as an article of domestic cousumption. The number of persons from the agricultural classes in the service of the State or of the British Government is not considerable as will appear from the following table:—

	Tabsil.	,	Detail of service.		Number of persons.	Monthly income.	Total annual income.
Rupbas		{	State	•••	122	Rs. 979 }	Ks. 18,600
		£ (British , ***	401	23	571)	
Oochain		5	State	•••	162	1,349	24,084
Occuani	***	··· {	British	•••	57	658 S	24,00
		(State	•••	213	1,576	
Biyana	•••	··· {	British	•••	83	983	30,708

These figures do not include the Saiyids of Paharsar in Oochain of whom many hold good positions in British territory and whose total income from service is said to be over Rs. 12,000 per month. The most prominent is Khan Bahadur Mir Aulad Hosain, C.I.E., late Settlement Officer in the Central Provinces.

CHAPTER IV.

PRICES.

88. The methods for ascertaining bazar and harvest prices described in Enquiry intoprices and prices assumed. the reports of the northern and central tahsils also. Appendix C shows the average (1) bazar, (2) harvest prices at the chief trade centres in each tahsil for (a) the 10 years 1880-81—1889-90 preceding the last settlement, (b) for the 9 years 1890-91—1898-99 preceding the new settlement. From these data, after comparison with the results arrived at in the rest of the State, I have fixed the following scale of commutation prices:—

Tabsil.	Cotton.	Rojra.	Jawar and Maize.	Moth Masina.	ти.	Wheat.	Barloy.	Gram and Peas.	Oilseeds.	Bejar.	Gochni Gojra.
Buphas	 11	26	30	25	11	21	30	30	14	30	26 ^t ·
Oochain	 11	26	30	25	11	21	30	30	14	30	26
Biyana	 11	27	30	26	. 11	21	31	30	14	30	26
Bhusawar	 11	27	30	25	11	21	30	30	14	30	26
Central Tabsils	 11	26	80	25	. 11	21	29	30	14	30	

It will be seen that in Ruphas and Oochain which are connected by good roads with the markets at Bharatpur, Achnera, and Agra, the rate of prices is practically the same as for the central tahsils and for certain food grains is a little higher than for Biyana and Bhusawar which are not so closely in touch with large markets. Compared with the average harvest prices of the last few years, the rates assumed may appear at first sight unduly favourable to the zamindars, but that period has been on the whole one of short harvests and high prices, and it is essential therefore to allow a considerable margin to cover fluctuations. As I write, the price of food grains at Bharatpur varies from 10 seers per rupee for wheat to $12\frac{1}{2}$ seers for the coarser grains, but it cannot be argued that these famine-inflated prices are beneficial to the Zamindars the great majority of whom in a year of scarcity like this have to live largely on their credit with the grain-dealer, from whom they borrowed at these excessive rates and whom they repay at the cheaper harvest rates.

89. Comparing the average prices of the period preceding the last with those No. rise in price since last settlement. Of the period preceding the present settlement, it appears that there has practically been no all-round enhancement, and similarly, if we compare the actual prices of recent years with those which are likely to prevail during the next twenty years, i.e., the term of the new settlement, we cannot reckon with confidence upon any increase. In fact, the probability is that with the return of more favourable seasons prices will in the future tend to fall below the average of the last few years. It follows therefore that we cannot look to an increase in prices as one of the factors for enhancing the demand.

CHAPTER V.

CROPS AND OUTTURN.

90. In para. 50 the fluctuations in cultivation from year to year since statistics of crops grown at and since last settlement.

1890-91 have been shown, and details of the crops grown in each year are given in Statement II. The following table extracted from Statement II shows—(1) the area of cultivation and crops and the

proportion of the chief crops to the total crops area at (a) last settlement, (b) by the average of 6 years 1892-93—1897-98, (c) for the year 1898-99 on the results of which the new settlement is based, (d) for the year just closed, 1899-1900:—

			AREA O	F						PEF	CENT	AGE C	F DIF	FERE	NT CR	ops.					
			(CROPS.					Кпари	P.						Rabi	•				sli.
Tahsil.	Period,	Cultivation,	Total.	Kharif crops.	Rabi crops.	Cotton.	Bajra.	Jawar.	Masina,	Gawar charri.	Tin.	Others.	Wheat.	Barley.	Gram.	Bejar.	Gochni.	Gojra.	Oilsceds.	Others,	Percentage of defasli.
	1891-93	51,545	61,015 Per cent.	26,301 41	37,744 59	 6	 21		2	 5		 1	 11	 8					 2		 24
Bupbes {	1692-93-97-99	62,532	79,793 Per cent.	45,171 57	31,622 43	 6			1	 6	4	 1	7	 G	10	 8		 2	 2		 28
	1898-99	83,019	89,918 Per cent.	69,427 78	19,521 22	 5	 43	 9			 10	··· 1	4	 6	 4	 1		 1	2	4	₇)
ţ	1699-1900	81 ,9 33	67,097	•••		•••	•••							•••	•••	•••		•••	:••		7
[1891-93	102,951 {	131,031 Per cent.	53,385 41	78,546 59	4	13	4	1	18	1		 10	 11	22	 11	1		2	 2	 28 ;
Oochain	1892-93-97-99	99,805 {	114,259 Per cent.	60,038 53	54,171 47	 5	20	7	2	 16	2	1	9	 12	 10	 9	 2		 2	 3	15
	1899 99	123,593	133,140 Per cent.	82,220 62	50,920 38	 4	28	7	 12	6	 4	1	 8	 11	 4		 2	2	 2	3	 B
Į	1899-1900	115,361	123,390	•••	•••	•••			•••	•••	•••		•••			•••			•••	•••	7.
	1591-92	134,561	166,911 Per cent.	C8,218 59	69,693 41	 10	 21	4	11	11		2	10	10	ა		9	==		3	24 24
Biyana	1602-93-97-99	127,057 {	153,207 Per cent.	03,250 61	51,918 30	10	 25		 21	2	1		9	11	7		 5			4	20
	1696-99	112,060	160,313 Per cent.	117,828 73	42,515 27	 9	31		 19	 5	 2		 7	 10	3		 2		1	4	13
· ·	1839-1930	142,042	159,676 178,799	••• 111,051	66,818			•••		·				···	···	•••	•••			•••	12
	1691-93	166,596	Per cent,	63	37	9	11	16	2	24	1		8	12	12	2	1			2	7
Bbusawar	1602-93-97-98	162,785	Per cent.	120,232 69	57,632 82	*** 8 _.	16	19	3	20	1	··· 1	7	12		1				4	9
	1808-09	170,378	170,596 Per cent.	132,177 71	47,419 26	 5	27	16	18	 5	 2	1	 5	 11	 5		1			 4	5
,	1699-1900	171,682	150,097				 													•••	^Б .4
•	1891-02	19,740	Per cent.	15,499 72	6,123	17	11	3	1	40				 11	5				3	`	9
Dallabgarh	1892-93-97-98	10,552	22,163 Per cent.	15,005 72	6,165 29	15	18	4	 4	30			 7	11	4						13
	1809-00	20,899	23,195 Per cent.	18,292 79	4,903 21	12	29	 3	 29	 5		 1	• 5	10		***			 G		 11
	1509-1900	21,125	22,072						"					***					**		9

The chief deductions to be drawn from these figures are (1) the steady increase in cultivation which was not arrested except in Oochain even by last year's drought as the rains of 1899 were ample for sowings though insufficient to mature the crop, (2) a steady decrease in double-cropping owing to the increase in barani cultivation which is rarely double-cropped and the failure of water in the wells, (3) a very great decrease in the rabi area both absolutely and relatively to the kharif, and a corresponding increase in the kharif. This is explained by the failure of the autumn rains essential for rabi barani sowings, and the deficiency of well water. As those causes are only temporary, so the result may be regarded in the same light, and this must be borne in mind in noting the fluctuations in individual crops which will now be considered.

91. The area under cotton has increased in Rupbas, remained almost stationary in Oochain and Biyana, and fallen off in Bhusawar. A large proportion of the cotton is barani, the cultivation of which depends on rains in May and June, and these have not been favourable in recent years. Moreover, the high prices of food grains have stimulated their growth at the expense of cotton, but the enormous rise in the price of cotton last year will, if maintained, soon counteract this tendency. The proportion of this crop to the total area varies from 4 per cent in Oochain to 12 per cent. in Ballabgarh. It is the chief revenue-paying crop in the kharif as the exports (para. 85) show.

Bajra, on the other hand, is the staple kharif food crop. Its cultivation has increased enormously in recent years. The area is now double that of last settlement, and it covers from 28 to 43 per cent. of the total crop area in the different tahsils the clean light soil of which is very well adapted to its growth. A small proportion of it is sown on chahi lands, and if rains are deficient, this gets a few waterings. Bajra, however, withstands a drought better than jawar and ripens quicker, so that it often makes way for a second crop in the rabi.

The cultivation of jawar has doubled in Oochain, more than doubled in Rupbas, increased considerably in Biyana and remained stationary in Bhusawar. The proportion varies from 3 per cent. in Ballabgarh the very light soil of which is quite unsuited to it, to 16 per cent. in Bhusawar where it is very largely grown in Weir and the Trans-Banganga villages. It is also grown with success in the Wal of Rupbas, the Jatmai of Oochain, and the central portion of the Biyana Kather where the soil is stiff. It is even more exclusively a barani crop than baira and is rarely grown on the well-lands.

The area under mung, moth, chawila and the various combinations of these crops with jawar, bajra, etc., (both forms are commonly called masina) has increased enormously on paper. Part of this increase is merely nominal, as at last settlement when these pulses were grown with cotton or the millets—jawar and bajra—they were classed under those heads or included with gawar-charri, and only the area grown separately was shown as masina. But there has been an undoubted genuine increase in the area owing to the extension of barani cultivation especially in the lighter soils which, when first broken up, are generally put under masina. The area now ranges from 6 per cent. of the total in Rupbas to 29 per cent. in Ballabgarh. The crop is rarely if ever an irrigated one. The outturn of grain is generally poor, as the crop is very sensitive to drought or high winds, and is also damaged by heavy rains but even when the grain fails the fodder is valuable.

The chief kharif fodder crop is however gawar-charri. The area shows an extraordinary falling off in all tahsils but Rupbas, the reason being that at last settlement masina was generally included with it, and partly perhaps that the people now prefer to sow crops which furnish grain as well as fodder. In dry years a good deal of the charri is grown on the wells in the hot months so as to furnish fodder for the well and plough cattle till the rains have set in.

The area under til shows a very marked increase in all tahsils, but above

all in Rupbas and Oochain. One explanation is that the sandy land along the former channels of the Banganga east of Farsu is peculiarly suited for this crop which however could not be sown with confidence while the land was exposed to inundations which it no longer is. In this locality I have met with crops of til surpassing any that I have ever seen. The crop requires only a moderate rainfall and is a very paying one. Hence its cultivation is yearly becoming more popular. The area under it varies from 2 per cent. of the whole in Bhusawar to no less than 10 per cent. in Rupbas.

Other kharif crops, such as hemp, tobacco, sugarcane, have increased in all tahsils but Biyana, but the area under them in no case exceeds one per cent. Sugarcane in small quantities is grown over all these tahsils. In Rudawal the area was considerable, but the wells in that tract have suffered very severely from the drought and cane cultivation has in consequence fallen off. Irriga-

tion from the Bareta band will give a stimulus to it in villages which are commanded by the ducts.

92. The rabi crop area as compared with last settlement has fallen off by from 30 to 50 per cent. for reasons already explained, and these reasons apply also to individual crops.

The area under wheat is now from 60 to 25 per cent. less than 10 years ago, and the reason is of course the reduced irrigating power of the wells. The area varies from 4 per cent. of the whole in Rupbas to 8 per cent. in Oochain. Wheat requires more waterings than barley, ripens later and is therefore more liable to damage from high winds, rust (kungi), smut (kangiari), and white ants. The outturn too is less than that of barley, and as the latter is the general food grain in the summer months, its cultivation is more popular.

The area under barley is practically unchanged except in Bhusawar where it shows a slight contraction, but the proportion to the total area has fallen off in all tabsils, and now varies from 6 per cent. in Rupbas to 10 per cent. in Oochain; like wheat it is generally manured and sown either on wells or on flooded lands.

Gram was formerly the staple barani crop in the rabi, and at last settlement occupied from 12 to 22 per cent. of the crop area in each tahsil Its cultivation has steadily declined since 1895 owing to the frequent failure of autumn and winter rains, and in 1898-99 the area under it was only from 3 to 4 per cent. It is grown on the superior barani and on the inundated lands and the failure of the bands to fill in recent years is also accountable for the falling-off.

The above remarks reveal a lamentable contraction in the chief rahi crops irrigated and unirrigated. If we take account of the various combinations of wheat, barley, and gram—bejar, gochni, gojra—sown as mixed crops, the decrease is even more marked. At last settlement these together made up 19 per cent. of the crops in Ruphas, 12 per cent. in Oochain, 9 per cent. in Biyana, and 3 per cent. in Bhusawar, whereas this proportion is now reduced to 2 per cent in Ruphas, 10 per cent. in Oochain (where the development of irrigation has increased the area), 2 per cent. in Biyana, and 1 per cent. in Bhusawar. Of these crops bejar (barley and gram) is grown on barani, sairaba or khatili lands, while gochni (wheat and gram) and gojra (wheat and barley) are confined to wells or the best inundated soils.

The area of rabi oilseeds (sarson and tara-mira), though relatively small, shows a steady increase in all tahsils, but the proportion to the whole area nowhere exceeds 2 per cent.

Other rabi crops cover 3 per cent. of the area in Oochain and 4 per cent. in the other tahsils. The most important is zira or cumin seed, which comes to from 2 to 3 per cent. of the crop area in all tahsils, leaving only 1 to 2 per cent for miscellaneous crops.

Miscellaneous kharif and rabi crops.

93. The detail of miscellaneous crops in kharif and rabi is in bighas:—

	•			K	HARIF					Rái	:I.		•		,
T	-		Tobacco.	Cano.	Vegetables.	Carrots.	Others.	Tobacco.	Poppy.	Vegetables.	Carrots.	Pens.	Miscellancous	Zira.	Total.
Rupbas	•	•••	162	25	106	. 2	470	S 5		E3	91	53	1.050	2,168	4,058
Oochain	•••	<i></i>	41	160	259	10	587	250	•••	331	76	675	216	1,730	4,344
Biyana	•••	•••	53	163	203	19	936	214	മ	418	165	402	280	4,083	7,120
Churawar	-44	***	65	5	235	582	972	529	38	263	416	***	1,032		
Ballabgarh'	***	•••	2		21	5	213	50	107	48	161	***		820	1,472

Of these crops the most valuable are tobacco, cane, and poppy. In estimating the value of the produce I have, after local enquiry, put their value per bigha as follows:—

•						Rs. Rs.
Tobacco	•••	•••	•••		•••	30
Sugarcano	•••	•••	***	***	•••	20 and in Biyana 30
Poppy	***	•••	•••	•••	•••	20
Zira	••	•••	•••	***	•••	15 and in Rupbas 12
Vegetables	***	***	•#•	***	***	12
Others	***	***	***	•••	•••	10

These rates are almost the same as for the central tahsils.

94. As an aid to determining the average outturn of the remaining crops, produce experiments have been steadily made in these tahsils since 1897-98 by the tahsil and settlement establishment under the supervision of Mr. Pyster, Assistant Settlement Commissioner, who personally carried out a considerable number. During my cold weather tour I had no less than 58 experiments made under my own observation, i.e., I selected the field, left a reliable official to have the usual area ($\frac{1}{40}$ of an acre) cut and brought into my camp where a sample of the grain was kept to be weighted when dried. The total number of experiments carried out in each tahsil was—

*,	Tabsii.			ı,	ı.				13.		.	ζ.			ıi Gojra.	ŋ,	
				Cotton.	Jawar,	Pajra	TII.	Cans.	Magna.	Maizo.	Wheat.	Barloy.	Gram.	Bejar.	Gochni	Sarfon,	Total.
-														_	-		
Rupbas	***	***	•••	٠	18	21	19				33	39	8	10	3	11	170
Qochain	***	***	***	5	16	28	8	2			31	68	14	13	2	13	202
Biyana	***	144	***	2	5	3		1	·		24	32	5	444	***	5	77
Bhusawar	, <u>`</u>	•••	***	10	14	51	2		10	2	43	£6	15	1	2	6	211
T	olal	***	***	17	62	100	29	3	10	3	139	195	42	21	7	\$5	660

Thus 660 experiments in all were made during the last three years. The average results of these experiments for each class of soil are shown in Appendix B. Of the 6 harvests under observation, only two, viz., 1897-98, were normal in character, and the average outturn therefore, though based on so large a number of actual experiments, cannot be blindly assumed as representative of the actual outturn over a series of years. Fortunately each year has increased the data for framing a reliable estimate, and we are now in a position to fix average rates of yield with more confidence than was possible when the operations began.

95. After careful consideration of the results obtained by actual experiments of yield assumed.

Rates of yield assumed.

ments, enquiry from Zamindars and tahsil officials, discussion with the Deputy Collectors and comparison with adjoining tahsils in Bharatpur, Alwar, and Agra, I have assumed the following rates of yield per bigha for the different classes of soil or rather for the different classes of crops—for the outturn depends chiefly not on the classification of the soil but on the conditions under which the crop is actually grown, i.e., on the absence or presence of natural or artificial irrigation.

	•			Kua	pr y.						Babi.				
Boil∎.	Tahail.	Cotion.	Bajra.	Jawar.	Maize.	Masina.	Til.	Wheat	Barley.	Gram and peas.	Bejar.	Gochni.	Gojra,	Sarkon.	Buma
Chabi-bal {	Rupbss Oochain Biyana Bhusawar	,,	5 5 5	4	4 6	2} 2} 2} 23 24	21 25 21 21	78 78 78 78	8 8) 8)	7 7 7	- 8 - 8	73 73 8 73	8 8 8	2 2 2	·
Chahi-Sabika {	Ruphns Oochain Biyana Bhusawar	2 2	4 4	4 4 4	4 4 	2} 2} 2} 2} 2}	2 2 2 2	4} 4} 4} 4}	4) 4) 4) 4)	3 3 3 3	3 3 3	3 3 	3 3 3 	1 1 1	,
Chahi-Sairaba-hal {	Rupbas Oochain Bijana Bhusawar	3}	5 5 5	 4 6	 4 6	2; 2; 2; 2;	2} 2}	8 8 9 9	9 91 11 9	7 7 7} 7	8} 9 8}	8 8 8 8	9 8 <u>1</u> 9	2 2 2 2 3	
Sairaba-bal with Chahl- Sabika and Sairaba hal,	Rupbae Oochain Biyana Bhusawar	21	4 4 4	3 3 4	3 3 3	2 1 21 2 1 21	2 } 2 } 2 } 2 }	4} 4}	5 5 5	5 5 5	5 5 5	5 5 5 5	5 5 6	2 2 2 2.	
Khatill	Biyans			 	or Sa	raba.		41 41 6	5 5 8	5	 5 7	***	5 7 	2 2 2	
Salraba-Sabika	Oochain Biyana	2 2 2 2	3 3 4 2)	1	3 3 3 21	2} 21 2} 	2 2 2 2	4) 4) 3	4 4	3 3} 3} 3	3 3 3	3	911	2 2 2 	
Barishi	Oochain Biyana	2 2	2 t 3 3	3 3 Same	3 3 3 as Sai	2} 2} 2} aba-sab	2	31 81 4	4	3 3} 8}	3 4 3	 	3	2 2 2 	
Busni	Oochain Biyans	2 2 2	2 2	3	2 } 3 3 2 }	2} 2}	Į.	3	4 4 4	3 8 3	3 3 3 3	3 3 3 	3 8	. 1} 11 11 11 ""	1
Bbur-Daraci	Oochain	1	1 2	21	2}	1 1	2	2 2 1}	3	2 3 2	2 13	1}	011 000 000	1 1	

As regards chahi and chahi-sairaba, there is little difference in the outturn, but that of Biyana and Bhusawar is slightly superior to the other two tahsils especially as regards the rabi crops, and a higher rate of yield has in consequence been brought out by the actual experiments and is now assumed. For chahi-sabika the yield is practically the same in all tahsils. For sairaba-hal too there is little difference in the yield except in the case of jawar which is better in Bhusawar than elsewhere. Similarly the khatili land

Thus, if the figures can be relied upon, Rs. 15,422 arrears prior to 1890, have been remitted, and arrears since 1890 amount to Rs. 13,605, of which the sums due for 'Dauran Mokaddami' (i.e., pending sanction to the succession the State claimed the income) viz, Re. 1 in Rupbas, Rs. 32 in Oochain, Rs. 40 in Biyana and Rs. 468 in Bhusawar, should certainly be remitted. Arrangements for the realisation of the rest will be made after reference to the Political Agent and Council.

133. Besides the Hakh Mokaddami allowed by the State as a percentage on Nankar and Chhut allowances in the jama, the lambardars and in some Khalsa villages.

cases the whole proprietary body in certain villages receive small grants from the State known as Nankar and Chhut, i.e., a reduction on the revenue. The number of estates and the total amount so allotted in each tahsil is as follows:—

Detail		Bupbas.	Oschnin.	Biyan a.	Bhusawar.	Total.	Total for the State.
Number of estates Amount	***	1 30	50 834	22 766	. 34 947	107 2,577	169 4,874

In the southern tahsils Rs. 2,577 is paid to 107 villages and in the whole State Rs. 4,874 to 169 villages, and this does not include about Rs. 1,000 paid to Chaudhris in the northern tahsils.

Originally these payments were probably a form of remuneration to influential zamindars for helping to collect the revenue; in others an addition to the Hakk Mokaddami. The original intentions have now been lost sight of and the State gets no return for this large expenditure. In some cases it takes the form of a percentage on the revenue, but usually it is a fixed sum. In some villages only the lambardars receive it; in others it is shared by all the owners.

Proposals for the appointment of think this sum, which is now frittered chaudhris or Zaildars.

of whom derives any substantial benefit from it, might be utilised to remunerate Chaudhris to be appointed in each tahsil in the same way as Zaildars in the Punjab. I therefore propose that in future these payments to bodies of lambardars or whole villages should cease, unless where there is a very special reason for retaining them, and that in their stead the State allow 2 per cent. of the jama in each tahsil (excluding Gopalgarh and Pahari where there are already well-paid Chaudhris) to remunerate Chaudhris, who will be appointed from among the most prominent zamindars with due regard to tribe and local influence at the close of the settlement and whose duties will be similar to those of zaildars in the Punjab.

The State would gain financially by this proposal as 2 per cent. on the new revenue excluding Gopalgarh and Pahari, would be about Rs. 3,300, while the present expenditure is Rs. 4,874. From the fund so formed inams averaging Rs. 100 per annum could be given to from two to four selected men in each tahsil according to its size. The gain to the administration—revenue, police, etc.,—if good men are selected and the system properly worked, will be considerable. What is at present most needed in Bharatpur is to raise the status of the zamindars, and promote the growth of the sturdy yeoman class, which is found so useful in the Panjab as an intermediary between the Government and the people. There is abundance of good material in the State, but the policy in the past has been to regard the zamindar as a cow to be milched dry, or as a sponge to be squeezed, and no steps have ever been taken to raise their position. The result is that nothing is done by the agricultural body to assist the administration. The tahsil chuprassi and the Patwari have to be requisitioned for

the most ordinary duties and the collection of the revenue is left almost entirely in their hands.

- Progress made in other branches of the settlement, viz., the assessthe settlement. branches of ment and cognate matters. In Bharatpur, however, which has hitherto had no record of rights, the preparation of a correct record and the organisation of an establishment to maintain it are of primary importance. These objects have been steadily kept in view since the beginning of the settlement, and the progress made has been noted in my annual reports on the working of the settlement to the Political Agent and Council. The matter will be dealt with more fully in the Final Report which I hope to write before closing the operations, but I may here note briefly some of the chief measures carried out or under consideration.
- (1) All questions connected with proprietary and tenancy rights, revenue liability, shares, rights in wells and irrigation, claims of deserting and absconded owners to recover, disputes between mafidars and zamindars, have now been enquired into and finally disposed of, and the results have been incorporated in the new record.

To illustrate the labour involved in even one branch, I need merely state that up to September 1899 over 16,000 cases relating to tenant right were disposed of by the Circle Officers, while 2,044 cases relating to proprietary right and 3,739 other cases have been enquired into and adjudicated upon by them. My own work, apart from village inspection and assessment, consisted of 163 judicial and 13 mafi cases, 99 appeals and 4,139 miscellaneous cases.

- (2) The general enquiry into revenue free tenures is being made for the first time under rules framed by the Political Agent and Council. Up to date 427 cases have been investigated, but pressure of other work has retarded their disposal.
- (3) The Patwari Agency has been thoroughly re-organised; the number which was excessive has been reduced by the weeding out of old and inefficientmen; the circles re-arranged and the pay improved. Formerly the average pay was Rs. 7-8-0 per month. Four grades have now been formed, the pay being Rs. 8, 9, 10 and 11 per month, which will compare favourably with the pay in any Native State and enable us to secure better men.
- (4) The Kanungo Agency has at the same time been re-organised. Formerly there was one Field and one Office Kanungo in each tahsil and their pay averaged Rs. 10 only per month. The scale now fixed is one Office Kanungo—and in Bharatpur and Dig two—at Rs. 20 per month and two Field Kanungos paid Rs. 20 and Rs. 25. This reform has stimulated the old Kanungos to qualify themselves and all have now undergone a thorough course of training in the settlement; while for the new posts the most capable men have been selected from the settlement and in a few cases Patwaris have been promoted.
- (5) The Naib Tahsildars throughout the State are being put through a six months course of training in settlement, half at a time.
- (6) To strengthen the revenue supervising agency it has been proposed that the services of M. Hira Singh, Settlement Deputy Collector, be lent to the State for five years as Revenue Deputy Collector.
- General remerks and cost of the setdefended up to date generally I have received the hearty
 tement up to date co-operation of the State Council and in
 particular of Rai Bahadar M. Sohan Lal to whose initiative many of them are
 due, and whose knowledge of and interest in settlement matters have
 immensely facilitated the prompt disposal of the many questions in
 which reference to the Council was necessary. I have to thank the Political
 Agent, Lieut. Col Herbert, who has been in charge of the Bharatpur administration since 1897, for the cordial support he has afforded to me throughout, which has enabled me to carry on the work without friction and without

exciting local opposition. Given a good start, i.e., favourable harvests for a few years, to enable the people to recover, and a vigilant and sympathetic revenue administration in the future, I am hopeful that the settlement will mark the return of an era of prosperity to the State and the people; not because I claim any special merit for the settlement itself, which has been rather roughly and hurriedly carried out, but because any settlement which secures a fair and well-distributed assessment and an accurate record of rights must be an immense improvement on the chaos which has hitherto reigned.

The cost of the settlement operations up to 30th June 1900 has been Rs. 2,44,626-10-9, and the operations will be completed at a cost of less than $3\frac{1}{4}$ lakhs, which, considering the size of the State and the revenue involved, nearly 24 lakhs, is not excessive.

The statements and appendices attached to this report are in the same forms as those submitted with previous reports (see paragraph 30 of report in central tabsils), 1898-99 taking the 1897-98 as the year of attestation. For all practical purposes the summary given in the text is sufficient.

Points on which orders are required.

137. The main points on which orders are now required are—--

- (1) The proposal as to the remission and collection of the arrears since 1890 (paragraphs 52 and 59A).
 - (2) The abolition of miscellaneous cesses (110).
- (3) The principles laid down for the assessment of sairaba land generally (116) and their application to these tahsils (117).
 - (4) The rates and assessment now proposed (125 and 121).
- (5) Subsidiary matters connected with the assessment, viz, the taxation of mango and other fruit trees (80), the arrangements for the leasing of culturable waste (74) and for simplifying and reducing the taxation on the betel leaf (79).
- (6) The fixing of the term of settlement (121), rates of malba (112) as in the northern tabsils, and the alteration of the dates of the revenue instalments (127).
- (7) The abolition of the Nankar and Chhut payments and the creation of a fund for the remuneration of Chaudhris to be appointed in each tahsil (134).
- 138. This report completes the proposals for the reassessment of Bharatpur, and before closing it I must put on record Notice of Officers and conclusion. the valuable aid I have received through all stages of the work from my three Assistants. Munshi Hira Singh has been in direct charge of the operations in five out of the present eleven tahsils. thorough knowledge of the Punjab revenue system enabled him to readily grasp local conditions in Bharatpur. I have throughout relied much on his judgment and advice, and have never found them at fault. The credit of the speedy and I hope satisfactory termination of the settlement is largely due Munshi Mahmud Hosain, the State Deputy Collector, in addition to his own duties, was in charge of the settlement work of three tahsils, and his previous experience as a settlement official enabled him to bring it to a satisfactory issue. Mr. A. H. Pyster is an officer whose services my predecessor obtained from the Bengal Survey. Although he had little previous knowledge of assessment, he has by hard work and perseverance got a good grasp of the subject and has furnished me with a very useful report on the three tabsils in his charge. He has received much help from his Assistant, Lala Gurdial, an official borrowed from the Mooltan Settlement who has shown exceptional capacity and power of work. Of the Sadar Munsarims in these tahsils, Amrik Rai and Gurdit Singh have both done well.

In order to wind up the operations during the coming cold weather it is essential that the assessment should be announced in August so as to be distri-

buted and brought into working from the coming *kharif* harvest. I hope therefore I shall not be considered importunate if I ask the favour of very early orders on this report. Lengthy though it is, the proposals are on all fours with those already sanctioned for the northern and central tahsils. No new principle is involved, and it will therefore be possible, I hope, to obtain orders within the time desired.

SIMLA; (Sd.) M. F. O'DWYER, I.C.S.,

The 12th July 1900. Settlement Commissioner, Alwar-Bharatpur.

TAHSIL RUPBAS.

TAIISIE RUPBAS.
No. 1 --- Area Statement--- contd.

TAHSIL RUPBAS.

No. 1. -- Area Statement.

) R			.TażoT	13,124	16,695		177,8	15,625
=			KP4till.	:	27.3	*	273	£63
2	BATBABA.		Barishi,	i	220	Ē	250	108
22			Former	ŧ	11,401	:	11,401	7,132
=			Vresent.	13,125	4,973	6,163		7,733
20	2	<u> </u>	Former.	₹	 	:	:	:
9	NAUM.		Present.	ŧ	:	ı		* :
E		<u> </u>	Chabi Nahri.	Ē	:		:	:
17		resent.	iq ndatha ban idado tintoqmeT	ŧ	et e		l a	1,093
10	Слиг Ватялиа.		Chahi tormer, salraba present,	i	196	1	100	140
22	CAT		Present.	ŧ	3,255		1,265	2,603
2			Temporary present.	:	1,630	:	1,539	2,333
23	спли.	estr.	Former.	3,567	6,631		1,034	3,550
a a		Равмант.	Present	727,11	6,748	4,079	i	0,636
ä		<u></u>	.Wolfet wol.	89,300	(6,701	33,600	<u> </u>	11,470
20		.1	ingorg elais bossesann redio		389	:	380	8£9
e			Total uneultivated.	60,855	67,483	• • .	628	62,768
			Oulturable waste.	66,889	05,440	i ·	1,651	52,027
2)B & D & D.	O:hers•	11,094	9,273	1,821	į	0,061
•	ORABLE.	Ожеражования,	Hille.	12,861	13,769	i	6 003	13,760
9	UNCULTURABLE.	STATE PRESERVES.	·lasa	i	:	;	:	1
4		STATE P	Bund.	7,011	2,001	10	:	7,001
6			-sota fedoT		1,76,622	1,078	.	1,76,623
				E		Ξ	:	00
		٠	Periol.	Last settlement	4ambat 1955=1809-99	Decrease	In creases	. Sambat 1855=1869-1900
-			חורדי.די		7	*¥87 ₹17 ₹2	1	<u></u>

TAHSIL RUPBAS.

No. 1 -- Area Statement-contd.

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	44		Мавоивт.		.193av oT	77	្ន		60	:
	£	Atis.			Temporary.	-	25		52	8
	£ .	Вивики:			Present.		-	:	-	
	41			Laos.	Not working.		1	:		:
	40		Katu,	La	Working.	11	265	:	103	407
	30		HM		Zaidiow told	ŧ	1	:	;	:
	88			No,	Werklag.	n	264	:	193	404
	37	WELLS.		*	Not working.	:	220	ŀ	220	203
	98			Last.	Vorking.	169	8133	1178	:	8553
	29		Masowry.	No.	Not working.	:	146	:	146	128
	98 8		A	X,	Working.	9,29	£019	363	:	₹0S0
	g				.Zaizion 10U	27.3	216	288	:	230
	33				.increfl			:	:	:
	31	GARDBAS.			Sairaba	ī	1		:	:
	90				Срарі.	i	æ	Í	æ	ω
	53				'Potal eultivated.	51,6	£3,041	:	31,420	160,18
	82				.faloT	23,107	. 61,088	:	29,561	60,076
	22	Вавляг.			Bbar Barral,	616	8,140	i	7,625	7,386
	55	*			Baranie	22,503	43,529	:	10,036	6,711
ľ						:	Ė	:	;	9
	2			Period.		Last getilement	Jambat 1938 æ1899-00	-52072 December	Did.	Bambat 1855—1509-1050
					Details.			Kutteh.		

TAHSIL RUPBAS.

No. 1-Area Statement-contd.

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02	Мапвт.).mcr.	PA :	:		:	:	_
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81.			.lrdaK lifed	: a	:	:	:		
12	134.	4100	emporary chahi and sziraba pres	T :	•	£	:	=	_
16	Сили Валвава,		habi former sairaba present.	0 1	60	:	.	41	
SI SI	3		resent.	a :	29		:	8	_
22			emporary present.	c	27	:	/ :	£\$.	_
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or		•	Other uneseesed State property	€,	27		Ĭ.	12	
° —			Total uneultivated.	:	2,078	E	:	1,041	
8			Calturable weste.	1 .	1,609	ŧ	:	1,405	
2	ធំ	U moteromanem.	Others.	:	808	. :	:	\$3	1
υ	UNCULTUBABLE,		Hille	2	E	:	:	12	
2	מאכם	Stath Рикейптия.	Banl,	:	:	Į.	₹	E	
-		STATE	Rand.	:	:	ŧ	:	. E	
			.esa lesoT	 5,853	6,710	163	ı	6,719	
-			Terlod.	Last eetilemant	Sambat 1065=1832-1899	Person.	Die Tecresso	Sambat 105Cm1899-1600	jt.
-			Details.			Mist.		8	

T. SIL RUPBAS.

No. 1-Area Statement-contd.

REMINES. **\$** · : 0 £ : Ol water. * KEIM. 5 **#**7 ፥ ፧ ፥ • To water. DEPTH. Ť 5 8 ፥ \$ ፥ MARONEY, 7 6 ន 45 To water. ፥ ŧ 93 14 2 Temporary. : 4 Dunkkin, Present. ፡ ፡ ÷ ፧ ŧ 43 : Not working. ፥ Ē : : 4 Laos. ņ 0 : ፧ \$ Working. KHAM. ì : ፧ ፥ : g Not working. χο. ¢ Morking. : ፧ . 38 WELLS. : ፤ .33 Not norking. Laos. 43 10 \$ ន ፡ 8 Working. MASONRY. : 섫 Not working. ŧ ₹0. * 201 ig S S ፥ 4.0 Motking. a 63 : Not norking. 33 į : ፥ Ē ፤ 33 GARDENS. ŧ ፧ ፤ Sairaba. ፧ : 31 Chable ፥ ፧ ፧ ፧ Ξ ខ្ល 3,543 8,333 : ፥ Ξ Total Cultivated. 20 1,764 1,503 : ፧ 23 Barani, ĝ 333 :-፤ .inereU toda ፧ 23 1,365 1,160 : ፧ į 20 : : ; ŧ 9, mbat 1055=1990-1900 Pambat 1055=1899-00 Period. : : Last settlement ... Difference. Mist. Detalls.

TAHSIL RUPBAS.

No. 1-Area Statement-conold. TAIISIL RUPBAS.

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 ह	-		Ebatill.	ŧ	272	:	:	643	\ }
- R	Sarbana.		Adeirabl.	:	260		:	108	
ន			Former.	:	11,632	. :		7,203	
ត			Tresent.	i	6,825	<u> </u>	i	8,537	
20	ı.	<u>'</u>	Former.	:		} 	ì	, :	
er er	Мапит.		Present	ŧ	:	į .	:	٠ .	,
18			Chabi Nahrl.	: :	:	:	ŧ		
17		present	Temporary chabi and sairaba	ŧ	a	i	ŧ	1,133	1
10	Спапі Ваївава.		Chahi former sairaba present.	1	105	1	1	163	
si si	CE		ъзсепт.	:	1,312	1	ŧ	2,650	
=			Temporary present.	:	1,566		:	3,376	
22	снані	fun.	Former.		4,800	:	:	3,087	
12		Равиливит.	Present.	:	7,206	;	1	7,212	
ı.			.wollal we		6,772	i	:	11,811	-
01		٠.	iroqorq sini2 bossosanu radiO	:	416	. :	i	410	
6			Lotal ancultivated.	:	89,581	:	:	84,699	
8			-olean oldanışlı:	E	69,045	3	:	64,392	-
-		Uxcelturaner.)there.	1	0,671	1		0,100	1
	UNCULTURABLE.	Омесьт	•E[[]]	E	13,810	i	:	13,540	
-	UNCULT	STATE PRESIDENCE.	lasi.	i	:	1	:	:	
-		STATE P	, tand.		7,001	. :	:	7,001	
•			este fefo	-	1,83,331	11211	i i	1,82,841	
				1	66-6	3	:	0041-	
-	•		Teriod.	Last settlement	Sambat 1035#1E98-09	.30m	ביישום ביישור בי	Stmbat 1950=1592-1900):
-	- -		stulk.		1 "	Toyle) <u>"</u>	-

TAHSIL RUPBAS.

No. 1 -- Area Statement-concid.

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46		Кили.		To water.	:	:	;		:
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43	Duskeis.			Present.	:	6	:	*	
41			<u>.</u>	Not working.	. :	:	:	:	
ę,		. Nr.	Laos.	• Vorking.	. 2	201	:	691	418
8	ļ	Кнаж.		Not working.	:		•	:	:
38			No.	Vorking.	-# 	261	:	190	416
25	Wells.			Not working.	:	222	;	223	205
96 96	,		Laot.	Working,	1 96	857	107	:	000
36		Mabon ex.		Not working.	i	147	:	71.1	130
3.8		-	No,	·LaixioW	608	070	28	i i	711
E				Not morking.	281	792	ត	i i	238
23			<u> </u>	Barraul.	:	:	E	ŧ	Ξ
81	Слвржия.			.edaried	:			ī	ī
. 08				СРорг	ì	60	Ī		œ
20		<u> </u>	,	Total caltivated	:	80,684	:	į	85,327
29			 	Total.	1	63,433	ŧ	E	619,679
22	Ваваят.			.losteU todA	:	8,539	:	ī	7,718
26	"			.loszeU		41,893	:	:	43,903
61			Period.		Last rettlement	Sambat 1035=1809-09	Decrease	. Increase	Sam at 1056#1800-1030
				Details.		Sam	Total.	19E)Q	- Sam
-	,				l		•		

TAHSIL RUPBAS.

TAHSIL RUPBAS.
No. 2—Grop Statement,

1.1	1	t	. 1	3,287	2,820	3,203	2,030	3,305	109'9	0,713	4, 150	855	5	2,660	821
16			,leioT	3,2	!	73 3,2	70 2,0	8	6,6	95	1.7	48	1	74	1 2
, p			Others.		1 2	<u> </u>			<u> </u>	<u> </u>	<u> </u>	<u> </u>	:	<u> </u>	<u> </u>
ä			Til.		å	250	347	473	6	332	, E	18	ន	289	2
ត	BAIRADA.	B136,	Gawar Charri.	288	321	269	233	210	335	108	267	88	:	Ē	1 2
ន	BAIR	Килия	.zaiaz.	12	05	13	;	37	្ត	28	26	C	:	47	"
ធ			.1172L	431	1,009	1,007	135	673	818	1,260	817	69	4	70%	\$
n n			Bağra.	2,168	1,020	938	.701	1,723	3,567	2,586	2,569	623	23	1,010	45
8			Cotton.	233	197	6110	535	100	302	202	358	34];	101	2
2		<u>'</u>	Total of Chahl.	11,727	10,753	14,868	10,18)	14,839	15,734	12,116	13,082	9,850	269	13,764	786
27			.fcial.	9,756	8, 157	11,469	0,232	12,177	12,683	10,600	10,776	210'6	63,	11,246	1 63
22			Others.	1,003	1,312	3,820	4,377	3,748	2,207	2,670	3,037	2,950	180	1,740	8
5			oilsceds.	169	185	ខ្លេ	9,	- 78	81		172	210	10	.66	32
ä			Wheat and Barley.	809	88	130	용	358	606	361	330	\$	12		:
=		Вапт,	Wheat and Gram,	ŧ	:	:	:	ı	<u> </u>	:	:	2	:-	1:	:
13		и	Barley and Gram,	I	:	:	:	:	1	:		36	<u> </u>	:	:
12			,meré	:	:	:	į	:	:	;	:	103	:	148	:
ı	11.		Darley.	3,551	2,650	2,000	2,010	5,110	7,615	4,271	4,013	3,353	169	0,423	334
g	силиг.		Wheat.	4, 165	4,303	4,623	2,710	2,883	1,890	2,803	3,203	1,883	152	2,427	135
6			Total.	1,971	2,263	3,399	010	2,672	3,051	1,510	2,307	833	83	2,503	101
8			-eradiO	243	385	551	603	835	373	322	405	325	ę	838	ត
2			.fiT.	` :	:	;		:	i	:	į	23	1	115	"
•		11 F.	Ganar Charri.	:	1	:	:	;	;	:	;	1	i	19	-
9		Кплив.	.zaleald	:	:	i	:	i	:	:	:	\$	Ē	23	13
4			Janat.	:	ı	:	i	:	:	i	:	2	ī	100	4
67			-eriafi	ï	ŧ	:	:	÷	:	:	:	13	-	1,027	\$
a			Colton.	1,729	1,881	2,815	416	1,837	2,073	1,189	1,813	457	ę3	623	eı
				i	1	:	i	i	<i>:</i>)	÷	:	:	:	:	i
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			ي ا	:	, <u>:</u>	÷	;	:	; {	; [:	;	.	:	
-			Potatie.	i	1602-03	1893-91	=1891-05	=1605-00	1890.07	1807-09	rage	.	1		
				⇒1591.03	Bambat 1940=1632-93	Sambat 1950m1893-94	Sambat 1051==1594-05	Fambat 1952=1605-90	Sambat 1953=1590-97	Sambat 1051ca1697-98	Six year's average	٠		g	
				Bambat 1918-21501-03	(Bam					E S	leix,	S. Khales	Nak	Khalta	N 1603.
i	1		I	16.	İ	. 4	1951 e) 6:	161 224 m	4.3		1	9-03° 22 :: 10 ::	ot seg	**************************************	101 101

TAHSIL RUPBAS.

No. 2,-Crop Statement-contd.

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:	8			.laarati lo latol	35,962	30,308	40,29\$	63,300	44,313	48,067	76,814	61,807	73,053	2,300	66,013	2,067
:	5			[olal.	14,019	13,710	15,813	17,366	5,571	702	25,481	13,481	6,313	181	1,140	7
	2			, eradio	307	389	311	780	313	-	846	416	491	:	88	-
5				Vil-seeds.	807	1 E	1,361	1,393	180	12	3,675	1,213	1,423	13	203	:
2	5			Gojra (Wheat and Barley).	\$25	307	112	283	60	:	1,203	302	13	07	:	:
22	3	1	Bint.	Gochni (Wheat and Gram).	633	408	1,453	1,704	137	18	3,325	1,214	22	4	:	·;
. 6	•			Bejar (Barley and Gram.)	4,535	2,138	3,650	2,757	1,558	803	5,181	3,306	362	13	;	:
48					6,451	8,135	8,631	8,329	2,510	23	9,028	0,273	2,358	103	83	-
-25		ANI.		Barley.	240	158	101	273	63	21	789	235	490	8	ă	-
5		BARANI.		Wheat,	612	462	. 199	757	077	20	237	403	103	8	2	-
15				.frioT	21,013	26,580	30,111	36,030	38,769	47,305	51,330	38,116	67,710	2,312	109,60	3,053
. 3	-	-		Others.	83	119	162	96	133	13	112	=	410	٥	1,845	2
£				TIL	553	1,419	2,850	4,401	3,137	3,226	2,138	2,917	0,0,0	330	10,662	463
53			Килагр.	Gawar Churtl.	3,144	5,031	4,894	4,689	5,337	5,580	3,284	4,820	3,604	209	4,624	166
. #	-		Ku	.Masina.	1,318	1,181	900	426	1,089	313	333	623	5,033	190	6,123	216
6				Janat.	3,026	4,410	5,500	5,453	9,127	7,880	4,304	6,029	7,815	113	4,109	167
68				Bojra.	11,055	12,821	13,679	13,98\$	17,897	27,067	39,923	21,012	37,046	1,116	33,176	603
38			,	Cotton,	1,875	1,500	2,364	7, 178	1,999	2,317	935	2,761	3,806	185	3,555	8
. 32				Total of Sairaba.	16,355	12,622	13,12.9	25,580	8,917	7,239	23,531	14,810	6,016	500	8,900	. 018
38		-		-foiol	13,068	969'6	0,860	22,541	5,012	1,649	12,918	10,366	5,192	118	0,311	780
35				. "въздър	1,010	7.18	631	280	403	145	758	610	. 131	ì	620	
ä)]]secq=•	303	83	197	250	117	2	723	211	330	g,	199	8
8		SAIRABA.		Vheat and Barloy.	7 g	169	1,010	1,881	203	58] §	739	193	-	:	:
- E		RAI	1887. A	Vheat and Gram.	1,640	983	986	2,330	ĝ	=	2,531	1,163	E	et .	:	: -
3			1.	arley and Gram.	3,393	3,133	2,801	4,385	1,756	272	3,910	2,713	168	. 	1 :	:
i	8			ram,	1,116	1,620	1,476	6,23 5	98	231	1,367	1,973	E E	;	2,100	£
	, g			. K9[125	2 E	303	21.2	290	150	735	1,211	- E	101,101	=	1,503	<u> </u>
	82			.3E01		2,903	2,000	5,033	983	97	1,007	2,300	1,503	eg .	0:0	159
				,	1	:	:	"		,	1	"		:		
					7:	1692-03	1803-91	11591-05	11805-99	11:00:07	11837-03	erugo	:		1	1
	1	·		Detail4.	1891.03	20-10-10-10-10-10-10-10-10-10-10-10-10-10	Sambat 1050-1893-94	Sambat 1031=1E91-05	Sambat 1052=1805-90	84mbat 19531696-97	Sambat 1051=1837-03	Six year's averago	1 14	1 :	lish	:
	- [!]				Bambat 1019=1891-03	famb	a s] #	Khalen (Khalen	Media Media Media Media Media	S (Khalea	Oliveral Andrews
					gam!]			201 of 6 2	El Jedme	5		1 ;	B—	31	101.2 101.6

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TAHSIL RUPBAS.

No. 2.—Crop Statements-concld.

78	IVATED.	. -	Baranl	20,094	31,081	33,065	40,089	33,405	30,060	. 60,670	1 38,179	010,79	1 2,140	1 60,056	2 1,721
7.7	SA CULT		Salraba.	13,124	8,082	12,270	10,097	8,502	798'0	15,820	11,431	6,410	198	8,311	8
2.0	REMAÍNING AREA CULTIVATED.		Chaht.	11,727	10,783	11,868	10,181	11,810	15,828	12,116	12,032	690'6	543	12,703	713
7.6	REMAIN		Area cultivated.	51,515	60,810	60,103	67,257	68,756	01,652	78,606	62,532	83,019	3,533	81,900	3,336
7.8			Double cropped area.	12,500	11,415	14,177	20,698	11,403	9,388	33,255	17,261	6,800	38	5,698	433
27			Total of both crops.	64,016	65,263	74,280	88,155	68,150	71,040	111,801	79,793	88,018	3,852	87,697	3,700
22				37,745	33,003	37,178	40,139	23,413	15,093	40,308	34,622	19,621	1,508	18,006	1,378
71			Оџрста.	2,173	2,479	4,605	5,717	4,553	2,413	4,271	4,032	3,574	180	2,923	138
22			Ollseeds	1,369	016	1,779	1,692	375	8	4,007	1,626	2,052	8	1,609	16
69			Gojra (Wheat and Barley.)	1,807	673	1,767	2,229	629	146	1,962	1,361	1,008	S-		:
88		Babi.	Gochni (Wheat and Gram.)	2,263	1,178	2,439		7/18	92	5,856	2,377	102	=		:
15			Peist (Barley and Gram.)	B20.7	0.70,7	0,103	8,142	3,361	883	762,0	6,109	77.0	1 %		-
99	AL.		•ш120	7,607	03,750	10,157	14,553	3,462	213	11,295	8,245	3,405	502	718,2	es
99	GRAND TOTAL.		Barley.	6,378	3,100	3,020	338	5,703	8,351	0,271	4,970	4,953	052	8,110	1 50
15	16		Ty heat.	8,810	7,617	6,828	0,402	4,030	2,041	4,910	5,013	3,459	108	3,342	000
63			Total.	26,301	1,88,18	37,103	30,016	44,746	75,047	62,533	45,171	721,60	2,284	160,03	2,382
8			Others,	405	219	1 .5	878	1,028	#	123	698	787	- B8	1,200	1 11
19			Til.	615	1,500	3,106	4,748	1 689	3,630	2,770	3,221	10,053	198	11,560	165
8		Kitaris,	Gawar Charris	3,192	5,402	6,163	4, 031	5,627	6,923	1 88.6	6,058	3,705	608	4,777	122
63		Kn	Masina,	1,343	1,231	1,015	426	1,126	33.	l gg	, - 2	2,035	l a	5,107	35
62			Jamat	3,157	615.3	262*9	5,059	0,700	8,603	6,673	6,810	7,910	÷ 84	5,678	H
29			en[til	13,213	13,621	11,616	14,035	19,620	31,531	17,503	100'63	33,520	1,169	33,213	i g
8			-gotton.	3,637	3,578	5,819	8,120	4,035	5,387	2,328	4,031	4,300	187	1,470	101
	`		, ,	i	:	:		:	:	:	ı	:	-	- !	<u>:</u>
-			Defails,	:	m1502.03	+1693-94	1694.03	1805.00	16:06:07	1807.09	ogs	:	;		:
			ă	dembat 1049#1601-03	Sambat 1959-1902-03	Jambat 1950=1593-94	Sambat 1031=169£03	Sambat 1052-1805.00	82mbat 1633æ1696.97	8ambat 1051=1867.09	Six years' averago	ılsa	:	i g	:
1)				Fambat 1	<u>ي ا</u>	€ (E		8	x18)	mbet M.S. C. Khalea	SHE (NAM	Thales	υ•κ')

TAHSIL RUPBAS.

No. 3.—Statement of Realisations and Balances from Sambat 1912 to Sambat 1956.

<u>.</u>		2	3	4	5	6	7	8	9	10
				REMITTED C	B REDUCED.	Bata	ANCB.	JAMA OF BE	SUNED ABEA.	,
Name of year,		Total demand.	Realised.	Remitted.	Reduced,	Realised up to date,	Balance up to date.	Realised.	Balance up to date.	REMARKS,
Sambat 1912=1855-56	 ,	Rs. 99,099	Rs. 99,076	Rs	Ra.	Rs. 23	Rs	Rs.	Rs.	
Sambat 1915=1858-59	•••	1,16,200	1,16,200			···.			•.•	
Sambat 1918=1861-62		1,18,299	1,17,450	***		849			•••	
Sambat 1928=1871-72	•••	1,29,670	1,29,668	•••	•••	3	***	•••		
Bambat 1939=1992-83	•••	1,43,879	1,25,152	•••		1,240	16,489	569	352	,
Sambat 1947=1890-91	411	1,60,513	89,477		•••	637	10,399	1	***	
;	-	1,05,297*	91,803	***	•••	1,901	11,593	٠	6	*According to Jama Ebarch.
Sambat 1048=1891-93	•••	1,01,474	91,779	•••		1,901	10,793			
Sambat 1019=1892-03	•••	1,05,766	99,542	•••		1,790	5,434	.27		
Eambat 1050=1803-01	. ***	1,05,796	99,457	e**	•••	896	5,458	42	***	
Bambat 1951=1894-95	. ***	1,05,994	1,00,471		•••	240	-5,201	86	804	
8ambat 1952=1895-96	***	1,05,084	79,330	•••	573	1,237	25,845	. 81	***	
Sambat 1953=1696-97	***	1,05,411	57,749	***		11,119	36,513	. 59	•••	
*13; 1054=1897-93	P11	1,05,295	09,223	-	600	201	6,600	03.	•••	
ambat 1955≈1698-95	••	1,05,777	83,032	-		 ,	22, 739	72	С	

No. G.—Stalement of cultivating occupancy.

TAUSID RUPBAS.
No. 4 -Statement of Sales and Mortgages.

			•							, .		
18			BREADEG.									•
17			Bate per Bigha.	Bs. A. P.	1 10 1	5 2 4	1 11 0		0 18 0	:	1 10 2	20 20 4,
10		* O	Price.	R8.	3,479	300	2,019	1	109	:	6,726	808
15	_	Влева,	Unealtirated.		63	13	497	1 .	18	:	1,272	12
114	FROM 1850 TO 1898.		Caltivated.		1,370	23	716	:	130		2,235	23
13	FROM 180		Bate per Bigha.	Пз. А. Р.	4 2 7	1 12 11	1 10 9	:	4 2 7	;	314 8	1 12 11
13		Мовголовя,	Мотідаве топеу.	Rs.	12,871	169	200	:	6,227		10,068	150
n		Мовг	Taealtirated.		1,032	SZ	282	1 :	350		1,669	ដ
10			Caltirated.		2,014	69	203		900		3,213	8
0			. Lafe per Bigha.	Ва. А. Р.	170	:	111 0	:	8 0]	114 1	:
8		Barns,	Price	13.	10,453]	6,503	1	4,587	:	18,903	:
7	_	Вы	Vacultirated.		3,171	:	002	!	213	i	4,379	` 1
	FROM 1835 TO 1830,		.Cultivated.		3,810	;	1,312	:	630	1	29'9	:
10	FROM 185		Este por Vigha.	Rs. A. P.	e1 e2 e3	3	6 14 9	i	0 15 7	117	2. 2. 0. 5.	117
7		Монталаке.	Norigago money.	ığı.	185'69	:	5,025	ŧ	29,653	153	93,459	152
6		Monte	. Vacultirated.		7,859	:	172	į	323	និ	θ,3c3	53
-			. Caltivated.		10,816	:	849		2,510	စ္မ	14,061	92
					(Khalya		ılga	;	1183		isa	:
	And the state of t		Details.			To Zamindses of the same village (Mafi	(Khalga	Next.		(Nad	Khalsa	Yotal i Mag

No. 5 .- Statement of cultivating occupancy.

•	•	•			•										
	92				BIRVEIU	١.	•				:			,	
-	3 2	AVERAGE RENTS Per Digra.			On area in column 21.	Rs. A. P. 2 10 11	3 1 4	3 10 0	E .	1 0 0	1 2 8	1 6 0	0 13 0	1 7 9	1 1 4
	33	AVERAGI PE PIG			On area in column 19.	Re. A. P.	:	0 0 8	1	3 0 11		1 8 0	1011	1111	1 0 11
-	23		*1111*	ក-វិន-ខ្សាយ	Total area held by tens	3,264	126	150	3	2,656	638	32,327	1,017	38,427	1,851
	22			ratos.	Pessagna.	8,808	328	404	3	4,000	749	27,957	783	38,206	1,929
	ĸ	Ľ.	BYTE	By other ratos.	. A160.	2,103	166	151	6	2 038	638	31,306	87.	25,708	1,782
.	02	B AT WIL	OASE BRETS.	Bachh.	Rupees.	3,406	,	66	1.	171,1	;	17,032	22	21,696	E
	81	AREA HCLD AND RENTS PAID UY TENANTS AT WILL.		By Dhal Bachh.	Asst.	1,101	;	8	:	893	:	11,018	8	12,716	8
	18	AID BS	119.	<u> </u>	kupees.	ì	:	:	:	:	:	က	:	, e	1:
	22	NT3 P.	Ввитв.		Area.	:	:	:	:	;	:	ဗ	:	1 "	<u>;</u>
	16	ND RE		•1	ated reday sees lato'l	:	:	:	l i	i l	:	:	:	:	:
	15.	CLD A		Less than one-third.		:	:	:	} :	:	:	:	:	;	:
	14	REA H	Vacts in Kind	Less	Share.	:	:	:	1	:	<u> </u>	i	:	;	:
.	13	A)	Kasts		.bitt-snU	:	<u> </u> ;	<u> :</u>	!	:		:	:	:	<u> :</u>
	13				Two-filths.	:	:	1;	:	1 : 1	:	:	i	:	:
	111				Half or more.	:	!				:	:	!	!	<u> :</u>
						:	•	"			1	i	÷	:	:
	10		,	Details.		· · · · · · · · · · · · · · · · · · ·	Change Change	(Khales	meno daries dassing	rdri Junia	1314	and Khalsa		H (Khalea	Ton T
1	0	X X	·		.feloT	465	3,023	7,200	=	91	\$38	l sa	2	4,063	7,416
ľ	œ	ABBA CULTIVATED BY OCCUPANCY TENANTS.			At other rates.	307	2,830	4,780	 	140	236			2,970	5,025
ľ		AREA (BY O	-liek 3a	rodšin 1	At owner's rate with o	153	1,003	2,420	;			89		1,003	2,420
•	•	E OF THAN	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Rnbces.	I	63	;	}	:	:		:	8	:
	ю.	NY TENANTS PREE OF RENT OR AT LESS THAN OWNER'S BATE.	Lipes Than Owner's Bith.		,42CA,	31	i ig	i		:	:	6	•	20	1
	•	BY TEN. RENTOS OWNS		<u> </u>	Free of reat.	23	1,705	:		9		150		1,768	:
	8			<u>, , , , , , , , , , , , , , , , , , , </u>	Cultivated by onners.	-1,673	. 38,835	:	16	1 19.1		1,067	.	40,327	:
-	64		,		Total enitivated area.	7,563	. 83,010	;	302	4,617		7,609		80,698	:
		***************************************		Details,	,	(Holdings	Агеа	Lauper	(Koldings	{ Area	Rupers	(Habdings	.	Area	Rupers
					,		arisa i		-12 p s	errise irr	SEX !			Fotal	·
1	- 1				1				4241	MAJITAS TRE					:

r**—3**2

xiv TAHSIL RUPBAS.

No. 6.-Statement showing rents by class of soil. (Khalsa).

	······································	1	········		2	s	4	Б	1 6	7	8
						CASH EBR		_	Owner'	S SHARE OF CROP.	
	Do	ctails.			Aren.	Rent.	Bato per Digha.	Monial's shate of crop,	Arca,	Share.	Bemarks.
Chahi permane	nt	•••	•••	•	1,743	Rs. 4,689	Rs. A. P.				
Chahi	Present		•••	***	151	€04	2 10 9	***			
Chahi former Sairaba present	***	***	***	}	54	143	3 10 4		***		
Chahi temproary	, 	144	***]	420	018	\$ 2 11		***		
Chabi former	174	444	***		997	1,098	2 0 4		.,,		
Sairaba	Former				2,597	4,193	1 9 10	•••			
	Present	***	***		2,034	3, 668	1 14 5		411		
Barani	Barishl		···		6	24	400	***	*17		·
	Barani		•••		14,705	19,026	136	***			
Ehur Barani	***		•••		2,921	8,076	. 013 4				
Total	***	;	***		25,709	\$2,205	1 7 9		ta .		
-											

ř,

TAHSIL RUPBAS.

No. 6-A -- Statement showing Rent by class of soil. (Mafi.)

<u> </u>	1				3	3	4	Б	6	7	8
•				,		CASH DENT.			Оживи'я ви	(ARH OF CROP.	
•	Detail	f.			Area.	Rent.	Rsto per Digha.	Menial's share of crop.	Area.	Share,	Benauks.
Chabi permanent	•••	414	***		143	Rs. 207	Rs. A. P.				
Chahi}	Present	***	***	•••	40	79	1 19 5	***	110	434	
Chahi former	***,	***	***	}	. 9	€	200	10>			
Chahi temporary	ee,	417	tri Sac]	24	. 28	200	111			
Chahi former	41,		611		62	50	0 14 5	111			
	Former		•••	111	23	2 3	100	****		10	· ·
***************************************	Present Barishi	***	111		630	745	130	411	511		
Barani 410 E	Barani		***		620	477	0 12 4	41)			
Dhur Barani	N ₁	***	***	.	243	226	0 14 10	\$17			
,			Total		1,783	1,920	114	116		tad	

No. 7.---Statement showing ownership by tribes and tenures.

Взильке.					,														,		,			•	
Number of tenants at will.	:	:	:	***	:	I	ŧ	Į	:		:		1			:		:		ŧ	:		:	2,881	108
Number of occupancy tenanta.	:	:	:	:		:	:	:	:	•	ī			:	:	:	:	ł		:	,	:	:	313	្ន
Xumber of tennucy holding	:	;	:	**	:	:	:	ı	*	1	i	:	:	:	:		:	:	:	:	:		ì	2,505	171
Jama in the past year.	070	1	24,966	:	30,681	ŧ	8,410	•	12,029	1	13542	:	5,179	:	8,166		633	:	1,403	:	1,690		:	1,05,855	
Cultivated.	1,581	1	10,330	25	26 961	320	6,419	080	10,831	1,711	2,463	:	5,613	:	7,130	160	405	:	1,188	313	1,032] ;.	. :	83,019	3,643
Total area,	2,836		42,163	013	690'49	327	12,22\$	1,021	20,083	303	4,560	:	8,333	ī	11,627	218	1,018	:	1,712	163	1,613	7,390		1,76,623	6,710
Number of proprietary holdings.	23	į	236	17	182	6	\$	1	72	13	25	:	31	1	33		ص] 	18	4	ŧ		:	673	38
Ders.	8	:	1,109	4	814	=	247		iệ.	3.5	117	i	- F	:		01	ā	:	100		:	:		3,256	217
Number of owners.	 7	;	_	1	. 167	:	33		ä	18	53	:	38	:	188	:	91	:	20		:	:		1,057	31
Nur	63	:	1,017	05	219	= 	210	12	gg	125	16	;	203	:	453	2	9	;	71	01	:	:	:	3,220	216
	:	:	:	1 1	: :	:		:	:	:		:	"	:		:	:	:	:	: (:	:	:
Leading tribes.	(Whales	j Mad	(Khales	{Mag	(Khalsa	 / 188	(Khales	" (Mad	1	"	\$ Klialen	Sman	(Khalsa	" \ Mad	xp Pr. (Klialea	{Mag	Klialea	\magna_	(Khalen	מיגע)	-	Khalsa	Лап	Khalsa	Nad.
	۲-	C. SCHRINGAR	řŗ	Orige Jara		Ruppet			5	PRESENT AND DAGRE			1		Busien, Mugarelyn Pr. (Klialea	THIN.	ciant		Ornana	Ì	Кили	STATE PROPERTY		Torak	- !
Tenure.		Zamindari pure 3.		Elizion 203 Meff	Pallidari perfect-	Khales 2 Maft 1	Pattidati imperfect-	Khales 31 Mad 1	Pheyachars imperfect-	Khafea 0} Nad 9	Ë	Khales 1	a med 3	•	State property 1.		Total Klinlea 734 Mag			,					

No. 8.45 Statement of cattle, carts, population, etc.

1]	٠.,	,			,
				***	,		,
	£3		•	Пиклаке,	·	,	
ŀ					21,044	26,362	
	g 			CRAND TOTLE.			
	18		Tozik,	Females.	0,203	11,017	
	ន		To	.kalales.	11,841	14,435	
	10	POPULATION.	виодуал,	Females.	8,300	6 00 00	
	BE .	POPUL	Non-Gultifations,	Jojen*	4,201	2,731	,
	11	,	LTORB.	Fomsles.	5,69 . 4	6,622	
İ	20		Cultivations.	,89[<i>8]</i> ,	7,640	11,703	
	12			Details,	Sambat 1917.	Sambat 1056.	-
	2			Carts.	03	63 61	
	£			. le3oT	17,687	91,429	
Ì	ដ			Comela•	G		,
	п	·		ylalca•	‡	ï	
ì	10			Donkeys.	792	999	
	. G			Horaca,	277	433	
	8			Sheep and Goals,	5,100	5,010	
	7	-		Но-рапліося.	588	1,010	
	Ð			Ере-рицијоса•	1,671	\$ 300	
	ĵ.		,	солв.	8,129	18,130	
	•			•noxO,	3,763	, 202 n	
			····	Flonghs.	1001	2,015	
	n			Houses.	4,647	6,983	
			·	, in the second	Betilement of Sambet 1037== 1890-91.	! .	
	м	ľ		alls,	Sambet	nt	
				Details,	to to	Tresent Betllemant	
					[[]emen	ésent S	,
•	(1 .		· · · · · · · · · · · · · · · · · · ·		ı A	B 33

TAHSIL RUPBAS,
. 9-A.-Statement of wells by quality of water

TAHSIL RUPBAS.

No. 9.--Statement showing details of wells, etc.

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ន			Bonause,								
			¤				,	•			
									,		
E	H.	nry.			Not working.	į.	:	1		·	-
ıg	T WO	Temporary.			Working.	23	7		`		-
30	(LIB A				Kot working.	ŧ					-
20	DHENKLIS AT WORK,	Pormanent.			Working,	es .	:	Ť			-
29	LY.				Not working.	ŧ		· i			
27	DHERS AT WORK.				Working.	261	1	Ī		•	7
20	_ -			, noit	Under construc	ဗ	:				
22		-			Zaid1071 lo tuO	010	0		110.115		
2.5				34.	Not working.	. 230	6				1
ន		ŀ	Not working.	Laog.	Working.	8133	43}				7
ន្ត		.exe	Not w	18.	Not working.	145	8		-		
12		TTLBE		Wells.	Working.	6103	203				
ន		Ранзаит Sottlemunt.	wells		Not working.	ŧ	;				
£	ELLS.	Гава	New wells		Morking.	. 8					
138	MASONRY WELLS.		Old wolls		Not working.	Ę	i				
#	TASON	1			Working.	22	6			٠	
2	.		Working since Last	ement,	Not worklag.	\$5 P.F.	• >				
12			₩ Sinc	T get	Working.	, 4333	203	·		************	
7					Out of working		-				
13	,	Lect Seticehune.		Laos.	Yot vorking.	1				· · · · · ·	_
		Satit	Trells.		Working.	. p31	8		, 		_
=		Laer		Wells.	.Zaidtow toM)	1.1		· · · · · · · · · · · · · · · · · · ·		
100				=	Working.	929	. S				_
0	CITANI OF EACHA WELLS, DILLES AND DHENKLIS,		Тещрогалу.	_	Pormer.	E	;				-
	CITAW	Now.			Present.	1,058	- 22				-
-	AND A		Permanant	-	Former.	: N	:				_
	N SECTION		- A		Present.		<u> </u>	<u> </u>		۱ <u> </u>	-
10	·	 ₄			Present. Last Setilemini						-
-	CITAHI OF MASONRY WELLS.	Prusunt Battube Mante			Former,	14,513 4,617 7,000	, 092	1			-
	- Kasa			•	P-st Settlement	3'f (672)	;				-
-	-	!				1	1 :		-		1
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-			בינויוים			ε					
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TAHSIL RUPBAS.
No. 9-A.-Statement of wells by quality of water.

98			Briabro,				-									
5 8			,	*Lotal	10,880	028	122	:	23	8	1,620	22	1,330	81	14,150	730
23	Total.			Chabi former.	3,618	169	22	:	241	28	675	£	371	18	4,617	300
23	To		*guasa:	Cyrpl (cmborard bi	1,511	20		:	н	0	05-1	м	ຜ	Ξ	1,658	27
11			reaont.	Chahi permanent p	6,757	410	203	1	207	19	802	26	£F6	:	110,8	603
20				Chabi tormer.	Ē	Ξ	:	:	ī	I	:	:	:	ï	1	Į .
CI CI		Φυπγ.	.taoes	opani temporary pr	22	£	. •	I	3	ï	I	:	E	ŧ	22	ŧ
£	r.		-3nosa:	Chabi permanent p	ถ	:	i	:	ï	ŧ	ŧ	ŧ	ε	÷	М	ŧ
11	DHENKLI8.	папу.		7.0t 4.01king.)	3	•	ŧ	ŧ	÷		ŧ	`.		1	På .
10	Hα	Тамеонапу.		·ZnistroW	22	:	ì	Ξ	:	÷	;	÷	ŧ	i	26	•
16		ивят.		Not working.	:	1	Ξ	:	:	:	ę	:	:	:	ŧ	ŧ
1.5		Рвананат.		.Bai21077	41	:	:	ŧ	i	1	1	i	:	:	63	ŧ
13				Chahi former.	:	:	:	:	:	£	:	3	:	:	ŧ	1
a	'	Δυπ.	•Jnoga	Срарі сешбогася рг	1,119	81	:	:	1	:	128	ŧ	3	:	1,250	18
ä	KHVM.		esent.	rg dusaamreg idadO	68	:	= .	:	: `	:	:	:	:	:	33	3
g.	Fi	Bun Ls.		Not morbing.	ŧ	:	:	፥	:		:	:	:	:	:	:
۵		Nounna or While,	,	Working.	207	:	:	;	i	:	27	:	, es	:	237	1
8				Chahi former.	9,018	180	គ	ŧ	231	28	575	25	371	18	4,817	260
4		Δ28λ.	,\$ase	Chahi temporary pre	267	61	:	:	1	8	12	1	6	:	383	٥
0	1.		*1038	Chabi permanent pre	5,716	419	200	:	207	18	805	ສິ	013	1	7,970	2002
10	MASONRT.		Laos.	Not working.	165	-		i	o	:	43	:	°		231	, so
*	778	Wetes.	i	Vorking.	613	353	F	:	ig ig	0	8	64	g	:	813	43}
6		War	ile.	Not working.	112	-	-	:	8	;	23	:	4	-	145	6
69			Wells,	Worbing.	4853	224	0] :	82	19	1 28	F1	a	:	610	foz
					:	i	:	ŧ	1	:	:	i	:	:	:	·ŧ
			.•		ŧ	1	1	1	1	:	:	;	:	3	=	£
-			Details.		,	:] :	1	1	E	1	ŧ	:	E		:
		•			rkbalsa .	STEEL STEEL	Khalea	Oisi	CKhalsa	HAM	Khales	THE MAD	H (Khalsa	Baten (Man	Khalea	ToT Tain

TAHSIL OOCHAIN. No. 1.—Area Statement.

ន	}		.letoT	18,206	40,07	,	28,768	35,888	: }	5,686		;	6,259	1	52,6 60	1	}	41,147
2.1			Крайн.		260		300	201		47	:		œ.	:	284	! :	:	95
	31.		1		480		480	415		99			84		230		<u> </u> :	 64
=== 8	Вагвава		ldaired .	:	41		117	300		3, 163			2,906		0£0°21	<u> </u> 	<u> </u>	17,676
H			Former.	9	57 14,517	1	11 14,417	14,869	:		:	:				<u> </u>		
គ			Present.	18,206	31,757	:	13,581	20,270	ï	2,143	:	1	2,200	:	33,930			23,569
50			Former.	:	:	:	:	;	•	ŧ	:		1	:	:	:	:	:
10	Nanus.		Present.	:	:		I	2,314) : 	i	 	1	62	:		:	[]	2,423
18			Chabi Yohrl.	:	:	1	ı	311	ı	:	:	ı	72		:			325
17		ban i	Temporary Chah Santaba present.	:	102	:	103	1,172	:	:	:	;	158		102	:	,:	1,340
16	Сһанг Вагвала.	aderied	Chabi former and present.	;	1,265	:	1,255	1,103	:	629	:	1	88	:	1,314			1,195
15	ChA		Present.	:	0,571	,	6,571	0,873	:	814	i i		1,710	:	7,386	:	<u>,</u>	11,613
=			Temporary present.	:	202]	202	437	;	8	E	:	18	:) 82 1	;		518
55	спані.	BXT,	Former.	7,651	6,771	883	:	4,061	:	1,0/3	:	;	47.7	:	7,813			4,611
E E		Permant	Present.	30,201	17,003	20,865	:	17,2218	:	4,319	:	:	3,579		21,112	;		21,100
=		<u></u>	New fallow.	40,294	6,713	42,591	:	22,105	:	1,073	1	;	2,931	<u>} </u>	7,786	:	;	25,026
02	۱۶۰	regord etc	other unassesséd 8t	861	1,018	;	152	866	:	8	! :		36	:	1,113			1,093
6		<u> </u>	Total uncultivated.	49,175	72,208	:	23,823	65,168		8,297	1		7,669	:	80,585			72,827
60			Culturable waste.	27,773	53,603	:	25,838	40,003	:	6,036	;		0,200		60,515	;	:	62,038
-	1	DEB.	Others.	15,322	10,233	6,059	:	10,010	:	1,351	 	! 	1,303	:	11,581	;		11,433
9	ABEE.	Ожсистивавь.	Hills.	5,001	6,834		1,833	10,83		10			10	<u> </u> ;	6,811	<u> </u> 	<u> </u> :	6,844
-	UNCULTURABLE.	 	lacd.	 :	:	;			,:	i			1	<u> </u>	:	:		:
-	ä	State Persners.	Cund.	1,379	1,623	<u> </u>	្ត	1,623	<u> </u>				i		1,623	:		1,623
-	<u>} </u>) &	Total area.	2,03,611	2,03,023	'	18. 	2,03,623	31,208	20,377	1,691		20,378	2,33,970	3,32,000	089	<u> </u>	2,33,000
-	<u> </u> 		1-1-1-1	5,0	1 :	-	1	0.5	ਲ ;	្រំ :	:	:		£,	3,33	1	:	2,33
n		Perlod.		Last Bettlement	Sambat 1055 1609-20	Decrease	Dincrenca 4 Chereasea	Sambat 1936 = 1609-1000.	Last Settlement	Sambat 1055 == 1803-00	Degrees	Increaso	Sambat 1956 == 1899.1900	Last Settlement	Sambat 1056 = 1899-99	Difference	Increaso	Sambat 1958 — 1899-1900
-			Detaile	1	. 60	-esled		<u>- "</u>			Jish.		<u></u>		· ·	Total.	·!	- S

TAHSIL OOCHAIN.
No. 1.—Area Statement—contd.

						,			11,				,						
47		Кпаж.		.10 water.	13	# .	1	: .	:		. ;	i	3	ı	;	;	;		
40	TI.	Kn		To water.	18	27	:	.' cs	•	1		I	:	i	i	:	ï	ŧ	:
455	DEPTH	MARONBY.		Òl mater,	18	15	3	•		:	ı	ï	:	1	÷	ī	:	1	:
2		МАК		Totar oT	15	18		es ,	:	:	ş	:	:	:	:	. :	:	ŧ	i
43	KLIS.			Temporary.	27	4	:	13	423	:	:	:	I	G.	27	4	:	11	432
£4	Впянкия.			Permanent.	:	23	:	16	73	:	63	ŧ	га	4		16	ŧ	12	18
41				Not working.	1	13	:	13		:	,	:		:	1	15	:	14	-
40		, K	Laos.	·Buid10V/	16	93	61	:	202	:	15		15	28	\$ 6	107	:	13	228
. 65		Кили.	દુ	Not notking.	-	14	:	13	7	1	1	ī	-	ı	1	15	:	F1	-
. 88			Number	Working.	1 6	93	C4	:	201	:	15	į	15	286	16	107	ı	13	722
48	WELLS.			Not working.	20	330	:	314	241	67	77	:	22	02	20	467	:	388	323
36	WE	THE.	Laos.	Working.	1,759	1,555	203	;	1,790	361	326	38	:	333	2,122	1,881	241	;	3,125
35		MASORNY.	æ.	Not working.	22	208	÷	196	002 002	ဗ	36	1	£	£	73	302	I I	229	245
38	,		Number.	Working.	1,331	1,174	157	;	1,352	238	226,	13	:	231	1,569	1,399	170	;	1,583
33	-	-	<u> </u>	Not working.	420	420	9	:	l a	72	r.	6		99	2009	169	6	:	365
32	 			Barraul.	12.	ĸ	<u> </u>	,	Į į	:	5	:		75	:	202	:	:	76
31	GAEDENS.				:	=		i	=	:	:	:		1		l =	:	:	I II
30		-		·idadi.	, LO	0		*	6) ×	"		150	:	2	ī		13
28		<u> </u>	<u>-</u>	Total cultivated.	1,02,894	10,23,502	:	20,638	1,15,270		19,902	;]	18,693		1, 13,401		÷	1,33,953
28	<u> </u>			-JeioT	46,740	44,631	2,200	:	43,857		7,951	:		\$00'9	:	63,483	I :	:	40,701
27	BARANI.	<u> </u>		Bhar Barani.	:	2,902		2,903	3,262	;	46	E		င်	:	2,018		:	3,301
20	1			Barant.	46,740	41,629	6,111	:	39.505	:	7,905	i 		6,665	i	40,531	;	:	097'07
-	1	<u>-</u>			î	:	1		ŀ			:	:		:	:		,	
2			,	Feriod,	Last settlement	Sambat 1955 == 1699-99	Decrease	Difference {	Sambat 1056 == 1899-1900	Last settlement	Sambat 1935 = 1808-00	Decrease	Difference {	Sambat 1056 - 1800-1900	Last settlement	Sambat 1055 - 1809-90	(Decrease	Increase	8ambat 1956 = 1899-1990
1	_			Details.		- S	hales.			l a	⁶⁷	.hald		ر ــــــــــــــــــــــــــــــــــــ		, ex	Lotell Total	-	

TAHSIL OOCHAIN.
No. 2.—Crop Statement.

12		.			T SE		5,483	6,350	7,003	0,001	9,311	1 2	200	6,410	11,463	799	13.509	3,0,1	
52	_			.hers.	0 5	j	25	12	27	8	88		3	8	- 88	1 10	1 2		_
8				•11	T g	İ	350	12	1,308	1,124	198	1 8		768	600	E	1 385	136	_
12	BA.			owar and Charri.	1,84		2,020	1,442	2,018	1,098	1,860	1 5		1881	1,555	136	1881	_!	_
ន	SAIRABA.	Килир.		.sales.	Z Z		213 213	140	E2	165	153	1 1	: ;	E	290	98	2.073		_
23				.Trwa.	1 2		637	813	208	327	872	469		500	1,125	99	3,575		
ដ				.aric	2,123	8	TEO'Z	1,822	2,473	2,474	5,335	4,114			6,637	453	3,767		_
20				otton.) g	1	3	598	798	133	98	321	366		37.5	23	E	_!	_
10			**	otal of Chahl.	30,299	00 000	ano to	32,370	32,209	23,094	28,579	23,665	E 8		21,400	5,206	31,229	6,230	_
138				.lotal	20,430	24.343		/00'02	25,153	20,02	24,231	22,305	23.801		21,795	4,877	24,836	!	-
17	_)thera,	1,763	1,730		2000	3,603	3,425	2,483	1,037	2.777		2,100	284	1,810	290	_
12				Jilseeda.	638	648	i		8	401	253	202	872	İ	292	133	889	16	_
22	_			Wheat and barley.	369	451	1 3	6	<u> </u>	247	202	88	88	<u> </u>	1,002	131	1,080	143	_
= =		BABE,		Wheat and gram.	:	:		•	:	:	:	;	:	i	-	27	<u>.</u>	=	•
13				Barley and gram.	:	:			:	:	i	;	:	۱	22	23	89	<u> </u>	-
13	_			Gram.	,′:	:			;	:	:	:	;	İ		72	33	8	•
=	спанг.			Barley.	14,559	12,431	12.893		11,168	10,281	16,440	13,892	12,851			3,102	15,709	3,467	,
<u></u>	CI			Wheat.	111'6	9,083	9,187		\$10fa	5,733	4,530	6,231	7,396	360		1,173	4,507	1,337	-
6				.fatoT	3,869	4,316	5,703	1 8	Property of	3,007	4,359	1,269	4,250	1 5		329	6,303	835	
-				Others.	37.7	678	1 28	8		I, I	420	200	721	262		\$	707	62	
_				JiT	, :	;	:	;		:	:	:	:	H		2	305	27	
-		Кпавір.		Gawar Chard,	. #	:	:]:		:	:	i	:	0		:	213	23	
4 6				.dasian.	: 	:	:	<u> </u> :			:	:	i	4	1		. 268	g	ĺ
- -		-	···-	Jawar,		:	:	:		<u> </u>	:	:	:	83	"	3	701	182	
				Balra,	: 	:	:] ;		<u> </u>	:	:	i	191			1,660	103	
				Cotton.	3,492	3,668	4,760	6,838	1,091	- !-	3,938	920	3,520	1,619	l a		2,450	201	
]							-	-	1	i				1	
					i	1			"			1	:	i	:		:		
-		1	Details.		I	1693-93	1603-04	1891-03	1895.90	1504.07	A const	1607-09	: j	i	:		:	1	
					= 1991-93	at 1910 ==	it 1050 =	Sambat 1031 ==	Sambat 1953 ==	1 1	1	n i	:	:	:		.		
		š			1013 = 1	Sambat	Sambat	Samba	Samba	Sambat 1033	71.00	' !	averago	Kbalsa	Nrafi .	(Khalsa		Mad	
ļ					Sambat juis		7	56I 01 G	161 15q	meg		- [Six years'	.00.6 = 55 12dm	en r	1 .0	1956 1956 1956 1956		

TAHSIL OOCHAIN.
No. 2.—Crop Statement—contd.

. , .		1 1	, 	vyl	1 6	1 %	1 0		1 2	٠.	1 ~	1 -	1 4	a' 1	1 8
25			Total of Berani.	78,624	65,715	50,635	67,506	40,561	51,063	83,074	62,267	60,833	12,936	C0,277	10,905
<u>ت</u>			Total.	34,294	16,600	18,818	22,113	0,278	2,260	18,006	12,869	1,086	243	8	-
\$5			.s19d2O	10	6	= .	138	10	,	283	88	28	2	*	1
. 63			Oilseeds.	303	262	372	780	40	31	1,630	516	145	100	۳ ا	:
15			Wheat and barley.	=	61	i i	81		:	<u></u>	40	0	,	61	i
02	1	Rant.	Wheat and gram.	129	202	27.7	1,674	432	146	8	6.12	2	<u>'</u>		1
64			Barley and gram.	8.480	986*	3,620	4,017	2,101	1,423	3,674	3,202	25	1 27	;	
- Q		•	, отля	25,180	11,165	0,291	15,377	3,616	823	11,164	8,044	1,241	150	;	-
29			Barley.	70	<u> </u>	88	320	83	:	1,540	334	133	=		1
ęş	BARANL.		Wheat.	ě	:	16	8	:	;	3	a	*	<u> </u>	;	·
48	i fa		.lctoT	41,330	49,026	46,734	45,163	40,283	61,903	04,378	49,308	69,146	12,694	66,269	10,303
\$			Others.	£1	88	, 8	138	F.	-	266	8	403	2	299	1 25
3			"IIT.	923	299	0,11	1,800	1,623	1,582	1,146	1,294	6,176	878	6,403	803
1		ě.	Gawat Chatti,	21,659	24,320	19,206	16,003	17,326	17,646	B,960	17,258	0,849	1,285	\$65°	1,429
5		Кпавтр	, saisald	1,713	1,967	1,672	697	929	809	7,050	2,075	14,708	3,028	15,258	3,500
\$			Jamet.	4,687	7,955	119'0	70,037	4,743	5,346	7.378	7,013	0,049	1,416	0,255	118
 es			Bajta.	14,336	12,851	11,818	16,206	14,796	24,665	37,055	FT9'61	31,160	5,663	20,066	1,801
88			Cotton, '	1,356	1,266	2,140	3,450	1,217	1,850	2,518	2,075	2,901	483	3,294	£\$
37			.cdaria8 10 latoT	23,008	20.495	23,296	20,079	21,525	20,566	28,327	28,881	38,902	2,766	25,681	119*2
33			.laioT	17,822	15,012	17,946	22,077	16,624	11,355	22,732	11,411	27,439	1,967	12,376	999
33			ensd10	300	33	333	243	997	38	92	320	1,142	3	1,502	~
94			.abaaafiO	010	420	3,370	785	311	EB	925	88	1,596	411	83	\$
	₽₽.		.Tolied band troug.	88	32	208	16	154	687	1 11	236	2,070	202	1,850	8
83	BAIRABA.	BADY,	Barley and wheat.	101	979	1,035	2,423	710	199	1,409	1,121	3,051	8	612	238
91			Barley and gram,	7,221	6,700	6,160	0,550	0,860	6.373	11,450	7,182	7,338	381	3,905	171
08			Gram.	3,769	3,531	4,410	4,164	3,639	1,603	2,530	3,361	4,891	137	1,708	22
2	. ,		Barloy.	705	528	676	1,177	£13	538	3,913	1,312	3,000	467	1,189	12
23			·3rsafy	4,221	3,530	3,954	6,719	2,841	900	1,190	3,359	1,743	403	073	8
				1	3	1	1	1	:	i	:	£	:	:	
				· !	= 1602-93	1893-01	- 1804-05	1603 98	1890-97	= 1507.08	:	1	:		:
-			Dotails,	801.93		Sambat 1950 = 1893-98		1053 = 1	13		£ 1	÷		:	· .
				84mbnt 1949 == 1891-93	Sambat 1919	Sambat .	Sambut 1951	Eambat)	Sambat 1053	. Bambat 1958	Six yoarn' average	Khal-3	Man	Khalen	Man
			, ,	Sambat		790	11 03 65 61	1 admr8	!		Six yea	03-80°	31	3.1500.	05I 01

TAHSIL OOCHAIN.

No. 2.-Crop Statement-conold.

ė			"Įdeiraß	64,403	63,000	48,001	49,711	40,663	46,891	63,220	60,845	66,070	12,489	63,100	10,340	
11			Sairaba.	18,210	16,553	20,037	23,901	20,450	10,008	26,125	21,163	33,513	2,260	24,232	2,476	1
92			Chebl.	30,209	29,659	30,495	32,290	23,005	28,670	25,126	27,708.	23,080	6,169	29,023	5,877	
57			Coltivated.	1,02,981	99,173	1,00,303	1,06,011	84,412	175,10	1,14,470	30,805	1,23,593	10,012	1,15,361	18,693	
"			Area doublo cropped.	29,050	16,607	11 866	23,073	6,768	8,737	20,605	14,454	259'6	998	8,020	1,050	
73:			Total both haryests.	1,31,031	1,14,869	1,12,248	1,28,984	91,180	1,03,208	1,95,085	1,14,259	1,33,140	20,908	1,23,390	19,753	
ż			Total.	78,540	50,045	55,461	60,973	41 889	37,836	63,823	65,171	60,920	7,086	37,219	990*9	
2		Bib	.esadiO	2,081	2,003	3,736	4,074	3,901	2,789	2,409	3,177	3,270	243	3,316	308	
20			Ollseeds.	1,766	1,279	2,403	2,415	770	303	2,892	1,703	2,208	şög	1,224	S .	(
g			Wheat and barley.	466	77.3	727	181	401	1,194	06	\$99	3,177	386	3,842	152	
89			Wheat and gram.	929	030	1,312	4,003	1,143	202	1,838	.1,673	3,136	8	9g	\ \text{\frac{1}{2}}	
6	i		Parley and gram.	16,701	10,686	9,780	10,697	8,901	7,795	15,024	10,474	7,561	- F	8,003	183	
8.	TOTAL		Gram,	29,058	14,686	10,704	19,541	7,255	199'\$	13,703	11,408	6,737	30	1,791	88	
B			Barley	15,328	13,069	13,663	12,665	10,878	16,078	10,345	14,307	14,958	3,585	16,937	3,481	
75			Vheat.	13,427	12,019	13,164	16,403	8,573	5,445	8,463	10,775	10,771	1,667	5,480	1,373	
8			Total.	62,385	128,83	56,787	110,03	49,291	65,372	71,213	60,098	82,220	13,833	171,88	13,684	
59			Othora.	465	200	1,097	1,030	1,082	498	2992	850	1,080	125	3,506	051	
8			T.I.	1,074	716	1,863	3,109	2,617	2,540	1,229	2,062	160'9	890	8,168	1,055	
8		HIT.	Gawat Chattle	23,603	24,319	20,738	11,111	10,021	19,400	0,411	18,839	6,413	1,430	08,40	1,093	
83		Kuante.	Nosiuz.	1,094	2,170	1,821	523	830	781	7,133	2,208	15,739	8,121	17,500	2,903	
85	3		,1211.0.[1,61	1,892	10,423	7,335	200'9	\$,503	7,847	7,515	8,103	1,617	10,631	1,745	
2	• '		.arjeU	18,457	11,885	13,610	18,709	17,270	30,200	41,169	22,655	37,983	6,016	33,303	6,429	
5	3	<u> </u>	, no!!oa.	. 6,101	6,213	1,205	10,086	3,311	6,099	8,968	5,969	126'\$	723	6, 175	723	
				:			:	1	1	:	1] ;	:	:		-
			ė	50	- 1602:03	1803-01	1 = 1604-05	1 = 1695-06	3 as 1696-07	1 =1897-09] :					
	-		Detaile	19 to 1601-02	Bambat 1919	Sambat 1050	Bambat 1951	Sembat 1053	Sambat 1033	Sambat 1051	Terago	ii sila		lfea]]	*
				64mbat 1949	(Ban		7281 0) (~			Sir years' averago	as [Khales	ECST ECST	= :	12932-1	
•	•			* 0	•						¥ , ₹	1 120	Imt8	1 389	mag	l

No. 3 .- Statement of realisations and balances from Sambat 1912 to Sambat 1956.

1,			2	3	4	5	6	7	В		9	10
,	•				Веніттво ов	EEDUCED.	Balanc	JB.	Jama of Bi	SUMED	ABEA.	
Name of Je	ar.	-	Total demand.	Realised.	Remitted.	Reduced.	Realised up to date.	Balance up to date.	Realised.		Balance up to date.	Pemares.
12 =1 655- 5 6	***		Bs. 96,853	Rs. 96,8F3	Rs	Rs,	Rs	Re	Rs.	17	Rs	
)15=1858-59	<u>.</u>		99,782	09,782	***	;				45		
918 = 1661-63	po		1,05,374	1,05,974						68		
1928=1671-73	`•••		1,24,054	1,24,054						209		
1939=1682-83			1,74,983	1,70,589			2,065	2,33	5,	771	7	
1947=1990-91	*1*		1,72,373	1,58,064	4.4		1,537	11,87	79	24	8	
1949=1891-99	***		1,72,373	1,64,629	,,,,		37:	7,9	71	208	84	
1949=1892-93			1,68,068	, 1,60,587			1,34	6,3	33	,563	217	
1950=1893-94			1,67,906	1,62,85	3		65	4,	955	520	¸3 4 7	
1951=1894-95			1,67,979	1,60,93			1,3	5,	793	₁ 571	3	
1952=1605-98	•••		1,69,216	1,18,1			6,8	41	727	501	165	
1953=1896-97	414		1,69,95	ł	15		-25,		,455	1,295	263	
1954=1897-98			3 70 49	1,62,				436	5,676	846		
1955=1999-99			1,717	17 1,69,	985			1:	2,732	985	3	
1950=1699-190)			,				τ,		140	***	

			,										· XX	viii								
			1 8		,		Rexares.					1										,
			17				t Bigha,	g otell	A. P.	O G Khalsa.	. Mag.		12 12 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14	.	Maß.		2 Khalsa.	Mag		Khales		1,100
			10					Price.	Bs. Rs.		-	-	162 8 8		:	1	162 1 2	:		1 1 7		:
			16			SALEG.	liivated.		749		: 	1		-	:		<u> </u>	:		2,617		:
	•		=	.69.00		-	,bolavi		1,395	1	:	1	14	-	:		2	i	.	802		:
		-	13	FROM 1890-93.	-	- -	e per Bigha.		1. P.	1	;	-	10			1		!		1,482		
	rges.	-	E			٨٠	onegage mone	- i-	8	1	10,296 63	1	1,012 1 14 10	655 3 14		6		50 B 4		2 13 8	36 3 0	_
Ż.	No. 4 Statement of Sales and Mortgages.	-	-		Мовтолова.	-	.bolifivated.		903	1		<u> </u> 	259 1,0	£ 5 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	-	952		1,162		10,163	12,013	
TARISTO OCCEAIN.	^c Sales an	101	-			-	.bejavijin	+-	1,737	Top.	: 		907	101		162	-	:		1,344	ŧ	
TISET	tement o	0	-	1		'rq	Rate per Big	 ei		. 2 9				-		10 217		£	-	2,220	300	_
7	. 4.—St						•opir9		13,763	210 2		675 0 13	1	:	1	114		:			63 69	
	N.	~			SALES,		Uncultivate	1 12	!	15		215	1	:	1	216	:		14.651		210	
		•			-		Cultivated	7,91		88	-	555	1	:	-	1 23	:		4,578		. 15	
	· -	cz cz	FROM 1855-1889.	_	1		Tag oles	Rs. A. P.	-	8 14 10	1	0	1	:	_	E	į		8,501	1 8	2	
	-	-	FR		-		Mortgas	Bs. Rs. 72,892 4	$\frac{1}{1}$	1,037 8 1.	<u> </u>	3,051 6 9		3 1		0 16 1	31 15 4		4 10 7	11.13		
	-			Mobraldas.	-		Uncultiv	6,025 7.	1_	-	<u> </u>	213 23	=		685		1,509		83,653	3,601	- -	
	-	-			-		Cultiva	10,067	Į s	3		6.	55	1	3 259	1	:		€,196	នូ	-	
		-			<u> </u>				<u> </u>			4		1	603		<u>.</u>	,		221		
	-			Detaile.					Bycine													
				ធិ				To ramindars of the game witters.			,	To enmindus of other villages	,			8 400			Total	· ,·		
	1 1							To ma				To zamin			To mone to							
																•				1		

No. 6 .- Statement showing rent by class of soil (khalsa.).

				2	3		4		5		6	- 1	7		8	
					CASH :	BERT.					OWNER	's shir:	E OF CEC	or.		
,	Deta	ils.		Area.	Ren	t.	Bate per bi	igba.	Meninl's of cro	share ps.	Area.		Share	·. ·	, Bumadke	مہر
Chahi perm	anent presen	t		5,61		Bs.	Rs. A	- 1	***			- -			 /	· _
Chahi perma	anent and Sai	raba Presen		58	1,:	364	3 5 1	11	111		•••					
Chahi tempor	rary present	***		112	1	92	1 11 (6	***		***		***			
Chahi tempora	ary and Saira	ba present	•••	18	1	7	1 4 11		***				•••			
hahi former	MI	•••		1,621	8,099		111 8		111				***	12,003		
nahi former an	nd Sairaba pro	esent		104			2 0 p		***				"	8,691 4,678		
	Former	m,		4,240	4,963		1 2 9		***			••		a,		
raba	Now	***		7,622	12,205		107	 -				***		(ر - ا		
	Khatili	111		217	938	,	1 13 7	. '				110				
ani	Barlishi	***	_	271	831	,	3 7	,	.]	-	-	***				
-	Barani	***		15,071	10,810	1	10	<i>j</i>		f		<u>-</u>				
or Earsel	***	.	•••	1,333	€23	0	10 B	• p		*******		ęn	1			
		Total	-	57,000	££013	1	7 2	***	-	•			_			

No. 6-A .- Statement showing rents by class of soil (mafi).

1	2	3	4	5	6	7	8	9
-3.,		Cash Esat.			Owner's Su	ви от Свот.		•
Details.	Aren,	Rent.	Rate per Bigha,	Menial's share of crop.	Arca.	Share.	By Fixed erops share.	Benieks.
		Bs.	Rs. A. P.					
ahi permanent present	3, 027	4,294	3 1 11	814	{ *	9 234 }	350	
shi permanent and Sairaba present	145	335	2 4 3	***	414	***		
ahl temporary present	14	11	0 13 7	•••	ecel			
altemporary and Sairaba present	114	***	311	010	h1	***	***	
former	623	682	116	400	***	015		
ormer and Sairaba present	11	6	0 7 8	,	*111	éit	949	
Former	2,023	1,994	0 15 9	***		111	ed t	
aba Now	028	r 1,465	184	,,,	100	***		
Kbatili	•	4	100	ıA	111	410	ado	
Barishi	8	. 3	1 8 0	u.	100	in		
Barani «. «.	4,732	8,867	0 13 2	in	1	4	· ,	
]hur Barāpi			*1,	***	tu .	411	***	
Total en b	10,543	12,570	1 5 1	111	{ : }	3 233 }	980	

No. 7.—Statement showing ownership by tribes and tenures.

			No	. OF OWN	BRI.	1	1.		1					***************************************
No of Villages.	Tenures.	Leading tribes.	Present	Absent.	Total.	No. of proprie tary hold- ings.	Total area.	Culti- vated.	Jama in the past year.	No. of tenancy roldings.	No. of occupancy tenants.	No. of tenants at will.		Remarks.
1	Zamindari Khalis	Jat	333	130	463	143	11,005	7,451	11,330			. "	(1)	(1)—Khalsa
•	Cadillocal Albatic	Sinsanwar	279	11	200	60	9,115	7,319				,	(2)	(2)—Mag.
167	Zamiudari Joiat	Other Jats	1,769	619	2,109	501	70,120	47,908	G2,317				(1)	
2)			134	19	153	42	1,003	841						
15	Perfect Pattidari	Rajput	203	34	237	23	24,588	13.515	18,017				(3)	,
										 			(2)	
43 <u>7</u>	(Brahaman Bagri	664	280	1,144	211	36,157	21,359	35,824	<u></u>			(1)	
}	Imperfect Pattidari (33		33	49	11,028	5,277					(2)	
4	l	Gujar	1	223	960	237	42,266	22,751	T. 20,311				-(1)	
		 	7	5	12	1	2,353	1,663					(2)	
	(Lodha	174	44	218	37	5,924	4,383	0,378				(1)	
	Perfect Bhayachara					·				···		·	(2)	
		Kachi	25	7	32	9	<u> </u>	415	716				(1)	
		, situa	47	20	67	3.	665	635	£61.				(2)	
6	Imperfect Bhayachara	Dhaktir	1	<u> </u>	. c 6	22	240;	230	331	··· .	***	·1111	(1)	
		\ 		5		•••	833	710	,				·(2)	• •
2 (ſ	Sayada'	5			ş\. 	862,	210	213	··· .			(1)	
1	Pattldari Bhayachara		491		491	10:	3,614	2,875					(2)	
1 (į	Gaddi	118	38	173	10	1,061	647	1,500	·			(1)	í
		. (···		 							(2)	
		Others	63	16	70	200	1,073	1,103	1,630				(1)	
	•		165		165	76	1,346	1,101					(2)	
4	Kham	Kham						2,072	4,009	-			(1)	•
			<u>-</u>				2,735						(2)	
1	Etate property	State			 	 		· · · · ·					(1) (2)	
£2	GRIED TOTIL	Total ".	4,423	1,429	5,851	1,310			1,72,705	6,609	650	7.051	(i) ~	
7	******	bycosyd -	1,114	35	1,169	. 330	20,282	10,012		1,022	. 27		(2)	:

No. 8.—Statement of cattle, carts, population.

23			Bunabus.	2-	6 2	87 89
21	•		Grand Total.	40,660	43,512	+2,762
20		, i	Females.	18,370	022°02	+1,680
10 —		TOTAL.	Nales.	23,281	23,213	+ 633
18	ION.	ATOBS.	Eemales.	020*0	3,430	-3,620
-11	POPULATION.	Non-cultitators.	Males.	8,146	3,703	-4,433
18			Females.	11,429	16,789	+ 5,370
15		CULITY LTORS.	Nales.	14,135	19,610	+5,375
12			Carte.	69	331	+267
			.lcfal.	31,723	828. 838	+20,315
3 13		· 	Comeja.	. \$	23	# +
13	-		λn les.	;	:	3
10 . 01			Donkeys.	1 22	1,241	+850
_			.Hoises	626	049	99
6			ipseb and goats.	786	6,663	640,8+
-	-		fe-pattaloes.	678	e e	+2,265
	_		ре-рицијова•	10	B,766	+6,151
-	_		*\$\$10	162	17,268	980%+
n	_		cen.	- 575	12,654	+ 6,280
-	_		•sų3no	132	4,451	+707
, ·	<u> </u>). 101000	376	280,0	+710
-	_ _		,			
				1-1890-1	±	.g
	-		Detalls.	Settlement Sombat 1017—1890-91	· Present settloment	8-37

No. 9.-Statement showing details of wells, etc.

DHENKLIS AT WORK.			Rounds.			
KL18						(
DHEN	Твигопак.			Not working.	1	
-		1		.ZaidtoV/	1	ŧ
	Ракваят,			Not norking.	: g	: .
	<u> </u>	<u> </u>		Not working.		8
DRAINS AT				Working.	2	1 .
		1	"noi	Under construct		16
-				Out of working.	420	1 2
		,		.galdrow toN	006	42
		rking.	Laos.	Working.	1,656	2 230
	144	Not working.	Wells.	Not working.	260	38
	TTERKE		Å	Working.	1,71,1	525
	Ранвант Settlemunt.	Now wells	•	Not working.	: ,	1 ;
MASONRY WELLS,	Pass	Now		Working.	4	1
NBX V		Old wells		Not working.		
	-	i		Working.	66	75
-		Working since last settlement		Saidrow 10Z	ω.	
_		Sett Sett		Working.	1,295	220
-	l ii		ļ	Said tow to the	200	
-	LEMM.	1.	Laos.	Not working.	; 69	
-	LAST SRITCEMBUT.	Wells.		Notking.	1,758	59
-	LA		Wells.	Working.		: .
S.E.S.	1	, , , , , , , , , , , , , , , , , , ,	<u> </u>	Former.		82
A WEI	٠, ١	Temporary.		Present.	307	- ≅
KACH ND DH	Now.			Former.	55 55	Ħ
CHAIII OF KACHA WELLS DHERS AND DHENKLIS.		Present.		Present.	750	99
CHA			, 1:	Last Sct:lemer		:
OF STATE	Parant Satter-			Present.	7,771 22,013	6,072
CHAIR OF WELLS.	S _B	_		Former,		1,050
-	<u> </u>			Last settlemen	37,6337	1
				1		•
		٠,	*			· .
		Detail4.			: '	:
			-			
				İ	haleam	\$. ,

No. 9-4,-Statement of wells by quality of water.

1		ı	•			7	1		•						
						,									
	,								•		•				
					r.					•					
	26				Впильще					•				•	
					α										
	22				Total.	15,860	3,887	Ē	11	090°2	2,462	8,895	é	3,208	6,270
	<u>۔ ۔</u> و	ž,			Chahi former.	5,209	626	8	11	1,430	320	1,318	8	8,026	1,101
-		Totae.			Chahi temporary present.	235	2		:	23	n	\$, m	302	ES .
	21				Chahi permanent present.	10,416	2,249	131	:	5,592	2,123	F69'2	797	23,673	6,138
-	20				Срарі ботщет.	:			:	:	1	:	<u> </u>		;
-			Авва.		Chabi temporary present.	48	 :	;	3			-	1	88	
-	£ .		ΨΨ	<u> </u>	Chahi permanent present.	14	5]			£	<u> </u> 		1 1	φ
-	81	KLIB.			,		<u> </u>	1	<u> </u>	 		<u> </u>	<u> </u>		<u> </u>
-	17	DHENKLIS.	Тумговавт.		Not working.	64		:	1		· =	:	1	14	
-	10		T,		.gaiz10V/		: 		•	1	:	1	:		•
_	22		Peruanent.		Not working.	13	;	:	:	:	:] 	:	E	
	14		Рин		Working.			i	:	:	i	:	i i		
	13				Chahi former.	256	= 	:	:	:	:	;	:	255	#
	2		Апва.		.dessig Present.	63	9	I	1	;	1	93		8	£
	=	кнам.			Chahi permanent present.	413	8	:	:	105	:	138	:	7.45	8
-	ឧ	-	OF WELLS.		Not working.	18	1	1	:	:	:	:	ŧ	17	p-1
-	G		No. 07		Working.	69	12	:	I	13	:	11	ı	83	16
-	•	 	-	<u>'</u> 	Chabi lormer.	4,951	615	09	17	1,43	320	1,316	123	7,771	1,090
-	2		Уппу.		Chabi temporary.	136		;	:	20	ıı	12	9	177	13
-	9		V	-	Chabi permanent present.	08.0	3,183	133	i	6,397	2,122	7,396	707	22,911	6,072
-	.	MARONRY.		<u> </u>	Raistron 30K	178	26	e1	-	72	16	138	35	392	77
-	4	MAB	٠.	Laos.	·ZuidsoW	733	2	2	·	350	127	400	5	1,555	320
-			Твитя.		.Raidron do K	137	13	69		â	œ	82	15	308	98
-	64			Trells.	Working.	000	112		:	252	70	316	33	1,17,1	222
		<u> </u>	1	<u></u> -	·	<u>'</u>	Ė	÷	i	i	÷	:	i	:	i
					alars.	:	1		ŧ	i		:	ī	:	i.
	-				Particulars.	r Bhalsa	Nn0	· (Khalan	Lafad	Khalsa	ר אומן.	(Khalva	Лап	(Ehalsa	"Naß
	ļ						1 5	, K		,ar		.647 		EAE,	

TAHSIL BIYANA.
No. 1.—Area Statement.

SS	{		Total.	.18,411	17,734	710	ŧ	14,086
23			Kpatili.	ŧ	583	ŧ	689	1,101
ន	Ватпайа.		Barishi.	i	1,827	. :	1,827	1,201
g		 ;	Коттет.	:	3,216	1	9,216	2,907
គ			Present,	18,411	12,102	6,300		6,817
R	ij		Former.	ŧ	386	:	380	188
61	Мани.		Present	:	451	:	461	3,005
18			Cbahi Nabri.	ŧ	Present 330 Former 169	ŧ	503	Hal 998 Sabika 1,113 Total 2,111
41	ва.	rcsenț•	Temporary chabl and Sairada y	:	136	i	130	199
16	сиані заівава.		Chadi former, Sairada present,	ŧ	121	£	121	53
22	СПО		Present.	Į.	2,462	1	2,462	3,673
a			Temporary present.	•	. 88	•	865	1,305,
22	спані.	HRNT.	Former.	7,658	7,580	83	ŧ	6,267
ដ		Paulnear.	Present.	44,839	36,003	9748	1	35,686
11			Noffat vol.	42,133	11,633	30,600	ŧ _	10,431
10		.11	Other unassesable State proper	1,786	2,401	ŧ	615	2,475
0		,	Total uncultivated.	2,93,125	3,14,438	:	21,313	3,06,484
8			Culturable maste.	80,732	75,184	5,548	ŧ	880,83
2		Оясигантия.	Others.	63,998	209°89	ŧ	22,580	61,700
0	oncoltonable.	Ожсата	Hills,	1,43,045	1,62,397	i	4,352	1,62,307
0	מאכמנע	Втати умперичи.	.iancA	1	1	i	ŧ	:
-		STATE F	1 3/1197*	350	0ମ	60	ı	550
6			Total area.	4,71,605	4,70,433	1,173	ŧ	4,70,433
•			Perlad, -	Lat settlement	83mbat 1825=1809-00	Decrease	Clarrens	Sambat 1058-1590-1000
-			Details			Carest.		

TAHSIL BIYANA.
No. 1.—Area Statement—contd.

						xxxix	· C ·			
,	48			Ввиляке,			,		·	
	47		Kur.		Of mater.	13.	82	[2	:
	\$	H	- Ku		To vater.	8	ន	13		.=
	. 	DEPTH.	Magonby.		,Tolen 10	17	50	:		:
	*		NI		• Totaw OT.	50	8	*	:	
-	43	Вавиств,			Temporary.	es	- 4	.:	ដ	415
	. ខ្លុ	Диви			Present.	n	2	:	ដ	25
	η.	i		Laos.	Not working.	H	42		Ê	£89
	40	1	· "	. La	Vorking.	703		170}	1	738
`	39	;	Кили,		Not norking.	н	4	.:	84	1,19
•	38	£	,	Tro.	Working.	756	613}	123	:	726
	37	Wells.			Not working.	:	128}		₹8 21	1003
,	36			Laor.	Vorking.	2,510}	2,240	2013	,	47,85,7
-	96	\$	Masonry,		Not working.	:	1055	:	105	120
	34	**	, A	Mo.	Working.	1,933}	1,776,4	1673	•	1,8561
	33				Not working.	3403.	301		14}	297}
	32	1		<u>'</u>	·laszal	55	159		19	25
,	31	Словия.			Sairaba,	i	· · ·	:	ī	
,	30				Chahl.	. 741	77	120	ŧ	2.4
	20		<u> </u>		Total cultivated.	1,34,383	1,41,982	1	7,600	1,41,964
•	28				Total•	63,444	76,502		13,058	75,393 1,41,964
بو	27	Вапанг.	•		Bhur Bareal,	3	11,078	ŧ	14,078	13,634
	20			,	Baraul.	\$FF'(5)	61,824	1,690	ŧ ´	61,550
•	8			Period.		Last settlement	éambat 1056⇔1899.00	Decretebb	Cincresso	Sambat 105G-1699-1000
	-	·			Details.	<u> </u>) <u>ä</u>	Knitsh.		<u> </u>

No. 1.-- Area Statement-contd.

, ,	t		1		' <u>m</u> 1	, ,		, <u>e</u>
23			JefoT	:	2,843	: .	i	1,718
12			Khatill	:	æ	:		. 63
23	Вливал.		ddaircB	:	250	:		03
22			Former.		800	:	į	9 00
ដ			Present	:	1,647	:	£	ນວນ
8			Former.	\ :	Z	:	:	08
8	NAURI.		Present.	ŧ	239	ŧ	:	1,205
18	,		Обаћі Йайн.	3	. 241	ŧ	ā	Hal 170 Sabika 374 Total 541
17		Dresent.	Temporary Chahi and Salraba	:	75 65	:	:	136
91	Силит ватильда.		Chahi former Salraba present.	:	28	:	:	, m
15	Сві		Present.	:	208	:	:	720
12			Temporary present.	:	72		: .	152
22	снані.	· THEY	Former.	:	1,170	:	: :	646
13		Pedicandur.	Present.	:	5,908	:	:	6,897
ı.			New fallow.	:	1,100	1	:	2,020
ot ot		tty.	Other unassessable State prope	:	ક		1	84
0			Total uncultivated.	1	0,954	. :	:	0,182
6			Culturable waste.	:	4,610		:	8,026
*		Uncollosable.	Ofhers.	:	2,728	:		2,640
	UNCULTURABLE,	Олсога	*siiH	i	2,016	=	i i	2,016
20	UNCULT	Втата риквиния.	Baanl.	ì		:	:	i
*		BTATH PR	*pany	ŧ	1	:		ŧ
•			Total 21020.	50,007	102'08	208		30,709
		-		.			1	
-		-	Parlod.	Last settlement	Sambat 1085—1609-09	Diereasa	Increase	Sambat 1964—1999-1900
-			Details.			Pitu.		

TAHSIL, BIYANA.
No. 1,--drea Statement-contd.

,		. :	ike.	3		,			
. 48			Ramanne.	•					
. 23		j		Of water,	:	:	:	:	:
\$	_	KRAM.		To water.	;	; ,	:	:	:
33	рерти.	Маноявх.		. 10 maler.	:	•	ī.	ŧ	‡
44		Мавс		.131am oT ,	. :	i	ŧ	:	:
63	CE 18.	•		Tenporary.	:	e q	ì	e 3	5
43	Опанкля.			Эгезеп	:	H	:	-	i.
41		!		Not working.	ı	Ð	ŧ	Đ	163
40		W.	Laos.	Working.	49	· 65*	ξυ T	ì	20
30	,	Кпаж.		Not working.	:	6	;	ల	14
98			No.	Working.	40	şiş	4	ŧ	76
37	Wells.		*	Not working.	ŧ	## 87 87	:	ŝ	254
98			Laos.	Working.	4204	365	618	ī	Ġ B
25		Мавойву.		Not working.	. :		•	,	-14 -45 -61
36			No.	·8aizīroW	. 60 44	27413	94 85 80 80	ŧ	ŧłocz.
33	:			Not working.	964 96	ş	44 wh	:	458
8	: 1		:,		ŧ	\$	•	i	\$
- 31	Gardsus.	٠	:	Sairaba.	:	ŧ	:	:	:
30 ·		ť	٠.	Срару :	, :	70	:	:	20
20				Total cultivated.	ŧ	10,487	:	:	10,343
28				Total,	ŧ	8,691	1	. .	7,899
22	Darani.			Bhur Baraul.	3	1,058	:	1	1,086
20				Baravi.	ŧ	7,633	3		6,813
	-	·			ŧ	:	ŧ	1	
2			Period.		Last eattlomont	Sambat 1955—1998-90	Decrease	LIncresso	Sambat 1086—1600-1000
-		····		Details.			MAN.	в—39	

No. 1.-- Area Statement—contd.

					*			
i a			"IntoT	ŧ	20,877		ŧ	15,804
7	}	 -	Restill	:	627	. : .		1,164
22	Влівава.		•ideltaß (:	2,077		; ·	1,864
 g	-		Former.	1	6,123	; ;	: :	9,813
=			Prosent.	:	18,749	į	i ,	9,483
8	/		Former.	:	450	:	:	218
92	Name.		Present.	:	. 693	i	:	4,270
18	!		Сварі Хархі.	ī	740	1	ŧ	2,055
17	1,	present.	Temporary Chahl and sairaba	:	170	i i	1	100 100
10	Спли ваграйа.		Chabi lormer sairada present.	ŧ	140	į	:	23
16	Сп		Present,	i	2,760	ŧ	Ē	4,393
z			Temporary present.	:	930	:	.	1,458
23	снані.	HBHT.	Former.	ŧ	6,759	ŧ	:	7,240
g		Рапиливит.	Presont.	E	41,099	Ę .	E	41,683
n		!	Wolles we M	:	12,612	E	Ī	21,451
or Or		ıtı,	Other unseessable State prope	:	2,441	=	ŧ	B,621
0			Total anealtureble.	ξ	3,24,302	ŧ	į	3,15,666
8			Caltarable waste.	:	19,794	ŧ	ŧ	73,014
b -		Овопитивань.	Офрек.	:	89,326	. :	I .	67,340
	UNCULTURABLE,	Ожопы	11]]8*	Ē	1,65,013	•		1,65,013
10	UNCULT	Brats pubbburks.	, Laor A	3	:	\$	ŧ	
4		ELLE PL	*pang		00.2	ŧ	i	1 200
0			Total area.	ນ້	6,01,133	1,430	I	5,01,143
					i	1	i .	E
			Period,	Last settlement	Sambat 1035-1899-69	Decrease	De la la la la la la la la la la la la la	Bambıt 1065—1999-1900
-			Defails,			Tore.		
				•	_		• .	· t

. TAHSIL BIYANA.

No. 1.--Area Statement-concid.

					XIII				
,			· .	•		. '			•
₹ 9			REMARKS.		ı		,		. ′
47		Кпам.		Ol mater.	:	:	:	:	:
40	ני	- X		To mater.	ī	i	:	:	<u> </u>
	DEPTH,	Мавоник.		.101aw 10		:	. 1	:	
43		Mar		· 5910tr oT	:	:	:	;	
£	D пвикив.			Tempotary.	တ	. 26	i	SS.	637
43	Опи	i		Present.	•	, sa	;	. 	10
#			• #6	Not working.	=	ಚಿ	:	82	7.
40		,	Laos	•Buixing.	641	100	117	i	836
ş		Кили,	ô	Not working.	-	63	:	53 53	22
£			Ko.	·Vorking.	, 19	665	180	ŧ	823
33	WELLS.		***	Not working.	;	162		163	140
36			Laos.	•ZaidtoVi	2,970	2,014	356	; ;	4021,20
83		Мавоипт.		Not working.	i	137	;	137	123
3.5			No.	Vorking.	2,235	2,051	184	*	2,147
33				Not working.	396	405	i i	10	833
33				Betspl.	:	103	÷	F	103
31	Окврияв.		,	.edaitada.	Ī	ī		i	:
30				.Chabi.	: -	5	ŧ	:	0.04
20	,			Total cultivated.	:	1,01,460	<u> </u>	:	1,61,300
28				.faloT'		65,003	:	:	83,293
12	. Вавлят.			Bhar Baranl,	i	16,736	ŧ	! ′	14,020
92	,			Barack	,	60,357	ļ	ı	09,372
2		•	. Period.		Last eetiloment	Gambat 1065—1899.09	(Decrease	Increase	Sere bat 10561889-1900
				Delalis.	3	.eg	Tora.	vera	Se .

Statemen
2Crop
No.

	,			:	xliv										
#			Total,	6,717	7,748	7,607	7,047	6,221	8,941	10,623	8,167	4,313	447	4,930	609
8		-	Others.	121	128	2	8	8	8	5	8	\$	"	138	Ĭ.
28			liT	88	150	22	å	8	2	, 19	122	101	=	221	27
72	γ.		Gawar Charri.	1,196	:	998	:	:	:	:	159	416	127	68	123
23	BAIBABA	Кпавтв,	.aniasl.	701	1,872	1,315	2,007	1,382	1,691	1,867	1,737	990	17	1,166	116
22			Jawal.	603	831	1,153	018	299	926	816	610	630	88	158	191
21			.ericE	9,732	4,728	3,762	4,205	€,050	5,803	7,604	5,036	2,210	237	1,361	. 19
8			Cotton.	236	138	267	555	n	124	450	268	233	9	297	102
62			.Total Ol Chabi	44,830	42,834	40,437	40,432	43,560	46,283	39,400	45,005	41,616	7,030	61,638	8,613
82			TolaL	30,030	29,635	33,848	32,076	20,717	29,501	27,770	80,090	28,471	4,636	29,084	6,083
11			Others.	4,010	4,033	7,628	0,073	6,476	4,560	4,333	1,00	4,840	863	3,508	623
10			Oilseeds.	129	ä	138	181	88	, <u>s</u> . ,	ន្តិ	E	673	158	757	180
1			Wheat and barley mixed.		1	:	;	:	ŧ	1	:	913	91	1,594	207
2		BABL.	Wheat and gram mixed,	:] ;	1	:	:	1	1 :	:	=	=	.83	10
[]	•		Barley and gram mixed.	:	:	:	:	1	3	:	:	48	8	183	28
13			Gram,	:	:	i	:	:	<u> </u>	:]	200	\$2,	136	2
п			Barley.	14,508	12,266	13,183	11,495	19,493	17,498	15,403	13,680	13,618	1,063	16,491	3,749
01	сяант.		.Jzeatv	11,353	11,145	11,961	11,333	10,266	7,388	7,795	0,081	7,076	1,503	6,280	1,340
e			.Total.	11,769	14,209	16,489	17,347	13,943	15,783	11,729	14,016	13,176	2,403	22,654	3,530
8			,ersd±O	918	553	708	664	784	718	407	581	404	140	1,013	157
7			Til.	:	;	:	:	:	:	:	:	264	8	769	i ii
•		ž.	Gawat Chartl.	:	:	:	÷	:	:	÷	ŧ	58	ro	32.5	25 Y.
10		Кпази.	Maisold.	:	:	:	:	:	:	:	i	257	શ	493	5
*			.iawol	32	200	376	235	280	950	202	283	603	169	1,426	924
. 8			.aried	14,171	;	i	3	i	:	:	:	290	96	9,140	826
asi			.Gotton.	63	13,467	15,508	16,418	12,770	15,055	11,057	14,063	10,815	1,807	10,300	1,768
		***************************************		:	÷	ŧ	:	:	:	:	:	:	:		i
			· ************************************		ŧ	ŧ	:	i		£		1			Ε
-			Perfod.	50	= 1892.03	1603-01	1891-95	1895-98	1806-07	1897-03	1	: :	:	.	
				048 = 1601-0 3	Sambat 1919 😑	Sambat 1950 zz 1893-91	Sambat 1951 == 1894-95	Sambat 1952 = 1895-98	Sambat 1953 = 1896-97	. Sambat 1055	averago	Khalsa	Mad	Khalsa	Naß
				Sambat 1949	Sar		501 O) Ó			(Ban	Six years' averago	555 8-50.	189 189 1891	1900.	

No. 2 .- Crop Statement-contd.

19 1,742 466 25 12,046 122 9 219 15 3 65 423 12,489		673 143 10,920 4 13 16
1,742 466 25 12,046 122 9 219 15 8 55	6,180 772 02,709 22 44 34 28 7 23	673 143 10,920 4 13
1,742 466 25 12,046 122 9 219 15 3	6,180 772 02,709 22 54 94 28 7	673 143 10,920 4
1,742 466 25 12,046 122 9 219 15	6,180 772 03,709 22 44 84 28	4
1,742 466 25 12,046 122 9 219 15	6,180 772 03,709 22 44 34 29	673 143 10,920 4
1,742 466 25 12,066 122 9 210 16	6,180 772 03,709 22 44 84 28	673 143 10,920 4
1,742 466 25 12,046 122 9 219	6,180 772 02,709 22 44 84	4 4
1,742 466 25 12,046 122 9	6,180 773 03,709 22 44	673 143 10,920 4
1,742 466 25 12,046 122	6,180 772 03,709 22	673 10,920
1,742 466 25 12,086	6,180 772 02,709	673 143 10,020
1,742 468 25	6,180 773	673 143
1,742 466 25	6,180 773	673 143
1,743		<u> </u>
	Eg	12
- 	6	🖺
3,128	33,671	3,350
1,030	7,938	
4,280	33,897	2,926
456	1,970	
2,205	12,171	2,668
	-:	
8	1,151	106
103	999	\$
2	281	8
15	295	:
103	1,470	200
483	1,613	\$20
455	3,479	833
673	1,394	231
] :	1	1
1	:] ;
;	ılan	
G-F691	900	61-0391 B
1022= 1022=	326	dma8 east
		Alada 672 455 482 133 5 10 102 39 1,818 2,235 456 4,220 1,032 285 291 660 1,1151 10,211 15,170 33,897 7,938

TAHSIL BIYANA.
No. 2.—Crop Statementerconold.

		· 1	=	l g	9	65	5	ពួ	8	28	1 2] g	2	3
ED.		iarral		<u> </u>		 		'	;			; -	<u> </u>	0 0,063
TIVAT	<u>.</u>	Salraba,		15,55					<u> </u>	<u> </u>	'	!	<u></u>	2,359
AREA CUI		Chabi.	44,830	42,834	49,437	40,423	43,560	45,233	30,100	45,000	30,051	6, 197	11,881	7,146
AINING ,		, beirvitius get A	134,501	131,625	120,701	131,925	118,051	119,196	135,445	127,657	142,060	19,606	1.42,042	10,167
REN		Donpse cropped.	32,350	28,423	27,049	33,033	18,318	17,662	28,776	25,550	19,283	2,217	17,631	2,750
		Total of both crops.	106,911	160,018	156,750	165,008	136,369	136,858	161,221	153,207	160,313	21,823	150,076	22,216
		.feial.	68,093	60,630	67,850	67,339	47,580	38,262	68,835	61,918	42,515	6,907	30,483	7,063
		Others.	4,782	5,286	8,080	9,761	6,450	5,203	5,012	0,639	6,711	910	4,692	072
		ojiseeds.	616	463	67.7	411	231	288	928	487	1,165	263	1,32,	253
		Gram and barley.	ī	:	:	:	1	:			1,381	e l	1,875	202
ļ	Radi,	Vheat and gram mixed.	ŀ	:	:	:	:	3,033	0,347	2,010	1 23	11	E E	12
		Barley and gram mixed.	14,990	10,237	8,662	11,000	5,690	:	2,119	0,304	1,032	231	1,788	629
		•zz=2.	15,66	14,422	19,332	10,074	7,625	1,733	12,037	10,503	4,003	725	1,773	469
TOTAL.		Darley.	16,823	13,510	14,274	12,400	14,478	19,045	17,700	15,269	16,711	2,427	20,014	3,290
GBAND		Wheat.	16,975	15,713	15,010	17,603	13,170	8,900	10,636	13,677	10,859	2,197	7,595	1,474
		ToioT	98,218	100,398	000*86	97,009	88,780	98,596	105,336	08,250	117,828	14,916	120,193	15,148
		Of pers.	2,561	092	1,383	814	1,016	522	809	860	1,379	173	1,915	33
		'Ha.	918	1,376	1,319	1,312	1,790	929	630	1,226	3,380	637	6,163	813
	17,	Gawar Charrl.	18,872	:	181,71	ŧ	i	ī	;	2,861	7,985	1,874	10,380	1,891
	Кил	.naisall.	18,153	41,979	22,089	34,103	33,164	30,714	26,083	31,354	30,092	3,210	35,220	3,526
		.10wot.	c26°2	8,114	8,202	7,037	6,412	7,129	8,018	7,375	0,040	2,206	10,215	2,474
		*E7[e8]	35,791	32,062	31,136	35,293	33,781	42,910	65,991	39,653	50,751	4,613	43,397	3,803
-		Cotton.	15,951	13,087	17,655	19,030	13,566	16,392	11,096	15,058	11,301	2,333	12,897	2,318
		,	·	i	i.	i	i	:]	i	1	i	i]
			;	1892-03	= 1893.03	1804-95	1895-96	1806.97	= 1507-09	ŧ	ï	;	ŧ	ı
		Period	1= 1591-03	abat 1040 =	abat 1950 =	1051 ×	16at 1952 =	ıbat 1953 =	10at 1051 =	rorago	1]sa	:	ılsa	
			ambat 1019	San					-San	ix years' as	*68-5	169	Doct Indo.	1035 10305 10308
	GBAND TOTAL.	Вал.	Mariea. Abailey. Cond. Total. Wheat. Total. Wheat gram mixed. Gram. Others. Gram. Others. Gram. Others. Gram. Others. Gram and gram mixed. Gram. Others. Gram and barley. Gram and barley. Gram and barley. Total	1 1 1 1 1 1 1 1 1 1	National	Name Name	Name Name	No. No.				No. 1, 10, 20 10, 20 1	Part Part	Parish P

xlvii TAHSIL BIYANA.

1		2	3	4	5	8	7	8	9	10
				Remitted	OR BEDUCED.	Ват	LEONAL	JAMA OF B	ESUMBD ABEL.	
Name of Year.		Total demand.	Realised.	Bemitted,	Reduced.	Realised up to date.	Balance up to date.	Realised.	Balance up to date.	Bemarks,
Sambat 1912=1855-58		1,44,466	1,44,466			4	***	142		
· Sambat 1915=1858-59	***	1,43,327	1,43,327	***				36		
Sambat 1018=1681-63	***	1,62,526	1,62,526	***	***	***		66		
Sambat 1928 = 1871-72		1,79,832	1,79,128			350	356	127	411	
Sambat 1039=1883-63	***	1,87,116	1,85,025	•••		52	1,197	4,090	393	
Sambat 1047=1690-91	***	2,06,947	2,03,974			1,200	1,764	225	3	
Sambat 1948=1891-93	301	2,05,542	2,01,647	***	110	6 0	706	543	. 66	
Eambat 1949=1892-93		2,05,505	2,03,236	4+4		\$65 ·	1,914	585	25	
Eambat 1950 = 1893-93		2,05,272	2,03,178			,199	1,696	045	25	
Sambat 1951 = 1894-95	•••	2,05,341	2,01,683	***	•••		, 3,6 59	£02	168	
Sambat 1052=1605-98		2,05,397	1,93,920	•••	***	1,232	10,225	632	70	,
Sambat 1853=1696-97		2,05,643	1,74,567	414	229	4,622	26,225	673	191	,
Bambat 1055=1697-05	•••	2,06,053	2,02,960		tee	1,000	2,023	670	191	
Sambat 1055=1898-99	***	2,04,068	2,02,098	***	- •••	•••	1,970	820	-	•

No. 4.- Statement of Sales and Mortgages.

				ı			-			,			ſ
19			Ввильке.		,								
				Rs. A. P.	0 0 4	3 1 5	6 14 4	ŧ	, :	:	4 11 11	3 1 8	
11			Bate per Bigdm.	Rs. A. P.	8 9	1 0 6	2 10 8	1	:	:	2 13 0	111 6	
5 E		Вакия,	Price,	Bs.	1,235	250	500	:	. :		1,435	250	-
13			.botavitivated.		1 22 1	8	\$:		138	8	
14	0 1899.		-Cultivated.		227	16	62				797	=	-
	FROM 1890 TO 1898.			4. A. P.	11 8 1	m	E	2 10	0 11 11	0 19	1 2	20 13 1	-
13	FR		Rate por Bigha.	Rs. A. P. Rs.	6 6 15	0 0 0	2 6 6 10	1 0 12	0 2 4	15	8 9 5	17 16 1 20	
2I		Monroadus.	Mortgage money.		47,553 10	3,082 10	3,239	3,710 16	12,091	\$,029	62,853	1,721	-
=	!	om	Unenltivated.	<u> </u>	1,642	**	1,077	<u> </u> #	307	<u> </u> 	2,926	8	-
10			Caltivated,		9,056	303	808	912	1,015	4	4,394	Eg	-
				Rs. A. P.	60 60 60		313	:	8 8	1	6 10	:	-
6			nate per Bigha.	Rs. A. P.	1 13 4	<u> </u>	8 8	:	8 6		1 7 7		
80		Влтаз.	Price	İ.	6,738		1,736	:	873	:	8,347	;	,
			Uncultivated.		1,528	ı	308	ī	1,255	;	2,177	:	
80	TO 1839.		Cultivated.		1,632		465	:	394		2,481		
	FROM 1856 TO 1839.		amer vid	Rg. A. P.	13 16 0	16 8 10	6 5 11	ı	8 7 7	6 63	11 14 7	n n u	
ا			Rate per Bigha.	Rs, A. P.	9 O G	13 12 0	3 3 7	16 0 0	6 0 1	21 13	13 4	15 4 3	
•		Montelons,	Mortgago money.	BB.	1,05,726	15,675	4,019	304	26,512	6,463	1,36,317	21,415	
•		4	.Dogriftzald.		4,159	278	605	ŧ	1,289	17	6,983	295	
			Cultivated.		7,659	750	761	19	8,131	22.2	11,441	1,208	
					1	ŧ	ŧ	ż	ŧ	i	ž	1	
			٠			£	;	1	:	:	ŧ	Ē	
-			Detaile.		ŧ	I	;	1	ŧ	‡	#	\$	
	,	·.			Khalea	a sdr to Spalliy	nindars ither opess. Mbals	N N N N N N N N N N N N N N N N N N N	Khalsa (Khalsa	Mad	Khalsa	년 (Mad	
1	l			1	sich	nimitS oT	erabain	LZ oT	-A#U01	^T	• •		i

No. 5. - Statement of Cultivating occupancy.

						٠.	TIX	•	•								ı			
20	,		Rakabes.		ε	3	E	É	3	<u>©</u>	3	3	9	8	9	· 2	8	: 3	6	
22	GE PER A.	í	~~~	on Area in column 2	83 83	2 13 0	3 6 0	3 6	2 8 11	1	1,11 10	1 13 3	2 7 0	0 15 0	0 11 2	-	1 7 1ö	1 8 2	1 7 2	
23	AVERAGE RENT PER BIGHA.		*6	d amuloo ai cord aO	8. 8.	3 0 9	2 1 3	2 6 10	2 13 8	f	1 6 4	111 9	:	0 14 8	0.11	1 0 3	1 10 0	1 13 0	0 11 0	
£		•111	W-is-einco	Total area held by ter	3,14,559	2,152	011	1,652	275	;	6,573	72.7	157	45,900	4,731	813	03,750	7,905	1,11	
23			rates.	*seednH	34,753	4,842	159	. 851	4 32	1	0,012	081	333	35,846	3,001	- ម]	83,302	9,556	1,153	
21	.	· HR	By other rates.	.631Å	10,871	1,720	47	1,186	169	:	6,719	373	167	38,203	4,001	282	65,979	6,323	79.1	
20	AREA HELD AND RENTS PAID BY TENANTS.AT-WILL	Слеп вант	achh.	Rupees	11,918	1,316	131	865	296	:	1,538	619		7,050	203	100	21,371	2,850	297	
10	TENANT	·	By Dhal bachh.	,£31Å	8,688	432	ន	300	901		1,151	37.1	:	7,563	670	520	12,771	1,582	322	
18	PAID BY	Rents.		Rupees.	v	:		i	:	:	:	:	:	:	:		1	:	:	
12	NTS	R		. £762.	:	:	:	:	:	. :	:	:	:	1	:	:	:	:	:	
97 —	D RE	·	.ic	Total area under Bate	139	140	:	i	23	:	61	5	:	ŝ	122	:	173	311	-	
12	D AN	,	40	Area.	:	:	<u> </u> :	:	:	;	:	;	:	2	:	:	10	:	:	
14	пег	KIND.	Less than	Share.	1	:	:	1	:	:	-;		:		Į.	:	*	:	:	
13	AREA	Ronzs in		One-third.	13	:	<u> </u>	:	<u>'</u>		:	-	<u> -</u> :	·			13	:	<u> </u>	
<u> </u>		BBN		Tro-filths.	:	130	:	:	88		 :	<u> </u> :	:	•	:	:	:	161	:	
12				-910m to MaH	126	4	1 1	3		:		-	<u> </u> :	53		<u> </u>	150	180		
[=]				Holf or more			:		: 	<u> </u>		<u> </u>		<u> </u>	- 1	<u></u>			1	,
10	,		Details.			Chahi present			Chahi sairaba			Sairaba present-			Barsul			Total		
6	Ϋ́			· feioT	1,007		13,420	23,227	173	851	1.709			1,180	11,283	-	21,935			
8	ABEA CULTIVATED BY OCCUPANCY TENANTS.			At other rates.	813	Ì	12,172	20,950	165	706	1 5			200	12,878		22,411			
	AREA C BY O	Malikana	đµodžiπ τα	din estat s'ranno tà	165	Ì	1,257	2,217	18	148	4	•	İ	183	1,403	İ	2,524			
0	OF THAN			rgnbecs•	3	i	168	E	:	×		:		I.	163	Ť	;			
 13	NTS FREI AT LESS ER'S KATE	Less Than ovners's rath.	<u> </u>	, σοιτ	:		375	. ;	:	1 2				:	61.5		:			
*	BY TENANTS FREE OF RENT OR AT LESS THAN OWNER'S RATE.		!	Free of rent.	07.2		3,89,8		129	986				803	4,982	Ī	ī			
60		<u>, '</u>	•	stanzio yd bainvillinO	250'9	T	62,439	=	1,200	117'0		:		192*9	61,550		1			
-				Total cultivated area	14,311		1,42,060	2,36,070	2,105	19,60		 !		10,71 6	1,61,668		:			
-					:	Ì	:	1	, i	F				:	:	1	ŧ			
			·		Holding	-	Area	Rupees	Holding	Area	12 xna64			Holding	Vrca .		Rupeca			
-	,		Details.			===	 :			====		,	Ī		:					
		•	. •	٠			Khairs			Maß					Total					İ
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		i	,		! 	,	Ξ		-		178 15	., 22 3					<i>-</i> 2 ₁			1
		-	,	n ,-		,	Ξ	-		Jasiasi)	198 1º	., 118				. '	⊅i 	 _4	1	

Nors (1) = Khalsa, (2) = Man and (3) = Sub-tenants.

No. 6 .- Statement showing rent by class of soil (Khalsa).

1	-	2	3	4	5	6	7	
		Cat	H RENT.			OWNER'S S	HARE OF	-
Details.		Area.	Rent.	Rate per Bigha.	Menial's dues.	Area.	Share.	Remades.
Chahi permanent present	•••	10,331	Rs. 33,339	Rs. A. P.	l .	126	3	
Chahi Sairaba present		1,186	2,851	2 5 1				-
Chahi Temporary present		540	1,414	2 9 1		13	ł	_
Chahi Former	•••	2,171	4,624	2 1		14		-
Former		1,667	3,154	1 14	5	•••		
Sairaba.	•••	5,41 9	8,95	1 10	6		2 1	_
Khatili	***	310	99	3 3	2			_
Barishi "Lusting"	•,•	577	71	9 1 4	0	•••	•••	
Barani	***	27,00	5 24,0	0 14	3		8]
Barani Bhur	,,,	6,78	ł	16 0 7	10			
Total	4+2	65,9	79 83,	392 1 8	3 2		150 13 10	13 14 14 14 14 14 14 14 14 14 14 14 14 14

No. 6-A .- Statement showing rent by class of soil (Mafi).

· 1	2	3	4	5	6	7	8
		Cash Bent	•		Owner's	EHARE OF	
Details.	Area.	Rent.	Rate per Bigha.	Menial's dues.	Area.	Share.	Remarks.
Chahi permanent.	1,686	4,751	Rs. A. P.	***	4 136	નોલ કોઠ	
Chahi present Chahi sairaba.	169	432	2 8 11	***	28	ą	·
Thahi Temporary present	34	91	2 10 10	111		•••	
ahi former	280	578	9 1 0	•••	** >	***	
Former	107	149	1 6 7	400	494	101	
Sairba Now	338	644	1 14 6	***	54	· · · · · · · · · · · · · · · · · · ·	
Khatili	35	37	1 0 11	•••	411	•••	
Barishi	37	42	1 2 0	•	•••	116	
Barani	3,144	2,586	0 13 2	•••	122	<u> </u>	
Barani Bhur	493	248	080	,,,	•••		
Total	6,323	9,556	182	410	180 164	7(8 7)0	

No. 7 .- Statement of Tenures.

				•	No. 7	-state	<i>แ</i> ยน	7 101						·		·
1		2	3	1 4		Б	6	7		8	9	10		<u> </u>	12	13
				X0. OP 0	WNERS.					1						
Tenurcs.	Leadir	ng tribes of owners.	Residents.		Absentees and deserters.	Total.	No. of proprietary holdings.	Total Area,		Cultivated area.	Jama in the past year.	No. of tenancy holdings.		No. of occupancy tenants.	No. of tenants-at-will.	Rewarks.
Zamindari joint	Jat Sin	sinwar	{	328	101	429 85	151 105	l	016 453	6,038 4,486	9,329		l l		***	Ih.
Khalsa 30, Mafi 2	Other	Jats	{	381	123 75	507 294	103 89	1	,589 ,749	8,174 4,600	7,724 		ļ.		***	Kh.
Pattidari Imperfect	Rajpu	ıt •••	{	271	83	351		1 56	,650 117	14,947 73	16,484		- 1		•••	кь.
Khalsa 817, Mafi 85	Dhal	kars	. {	607	193	605 64	25	1),220 1,890	5,903 791	11,120	1	 			Kh.
Pattidari perfect	Gaja	ar	{	5,033	378 21	5,411 150	1,7	18 2,9	4,209	70,529 2,916		1			•••	Кb. t М.
Khalsa 13, Mati 2	Bro	shman and Bagr	i{	559 203	248 11	807 21 4	1	216 5	2,741	15,47 1,69		57			***	Кь.
Bhayachara perfect Khalsa 3.		ena	` {	- 218 26	65 0	3		120	8,402 1,625	4,56	. 1	06			•••	Kh.
Bhayachara Impe Khalsa 23, Mafi 2.		ali and Kachi	{	96	(i	18	19	8,833 763	4,1 5	13 9,	111		***		Kh.
Pattidari Bhayach Khalsa 1, Mati 1		addis	{	292 61	1	l	31 45	87 31	8,597 3,429	1	000	274		***		Кь.
Kham 11	8	Shaikh, Sa Pathau.	izad, {	1:		~ I	19	5	6,223 79	1	613 2 71					л. кр.
. Stato property 1		Others	{	10	1	4 2	73	17 26	2,07 2,10	1	234 I	.,775	***			Kh.
Khalsa , Mafi Total	153 16 163	Kbam						4	7,30	3 1	,927	3,000	***			Kb.
		State Property				1			2,0	1	- 1					Kh.
*******		Tozat	•••	7,7			1,977	2,773 919	4,70,4			5,973	9,00 1,23	_		544 Kh.

No. 8 .- Statement of Cattle, Carts, Population, etc.

23		-	Renaus.			88 i		110 		
67				Grand Total.		39 61,7		34,162 28,757 62,919	 	
ដ			Total.	Females.		59 27,68		62 28,7	 	į
ន			ů.	Males.		8 34,03			 	
2	-	N.	ULTI-	Females.		2 10,35		2 6,572	 	1
182		POPULATION.	Non-culti- vators.	Males.		11,89		55 7,45	 	
1		POPU		Females.		22,147 17,881 11,892 10,358 34,039 27,689 61,728		26,710 22,185 7,452	 	
	<u>-</u> -		CULLIVATORS.	Males.		22,147	<u> </u>	26,71	 	-
	<u>.</u>	-	-	Details.		:			 	-
1_	14			Carts.		06		204	 	-
-	13	+-		.lalo'T		63,716		94,386	 	-
-	13			Jamela,	,	607		899	 	-
-	11	+		•ยา[ก∦	2	œ			 	_
-		-)ougeda•	1	463		1,451		-
-				.89310]	н	597		737	 	_
		0		teep and goats.	da	17,290		30,828	 	-
-	1			•saolallud•a	H,	952		2,183	 	_
		0	<u> </u>	e-pntfaloes-	ep	9,576		14,318 5,5004 13,586 28,363 16,620 2,183 80,828	 	_
	-	10.		.87/	Cor	23,411		28,363	 	
	-	4		٠α٥	220	10,817		13,530	 	
	-	8		rght.	Told	6,3003		6,5003	 <u>,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	
	-	63		•643.	no H	11,689 5,3001 10,817 28,411 9,576			 	<u> </u>
		pri		Details.		Bottlement Sambat 1947		Present Settlement	r42	•

TAHSIL BIYANA.

No. 9 .- Statement showing details of wells, elc.

1 1	1						
8	BK.				: i		1
	AT WO						
 g	DIENKLIS AT WORK.	6.			Not working.		-
ਜ਼ ਜ਼	DILE	TEMPO- BARY.			Working.	25	m ·
8		4.			Not working.	:	
82		PREMI.			Working.	ed ed	-
23	PHERS AT Work.	'			Not working.	47	9
27	PITE WO				Working.	613	117
88					Under construction.	134	
- FR					Out of working.	361	17
25				Laos,	Not working.	128	ES ,
23			rking	ij	Workleg.	2,210	365
		ij	Not Working	19,	Not Working.	1,776rk 1862	317
21		Persent Settlement,		Wells,	Working.	1,7761	27413
20		INT SET		rells .	Not working.]:
19	183	Prese		New wells sunk,	Working.) # F	16
18	WELI			Old wells restored.	Not working.]:] :
17	Masonry Wells.			Old resto	Working.	\$ e ₀ 2	a
16	MA			ing last neut.	Not working.		<u> </u>
22				Working since last Settlement.	•Zaid10V/	1,760	-\$-092 2002
=					Out of working.	316	483
, a		BHT.			Saidrow told		i
22		Last Setzcausht.	Felu.	Laos.	•BaistcV	2,540}	429
=		LAST S			Not working.	1	:
8				Wells.	Working.	1,033}	301
0	LS,		j.	i	Former.	:	:
	CHARI OF KACHA WELLS, DHERS AND DHENKLIS,	ı.	Permanent. Temporary.		Present.	1,000	1000
-	KACH ND DH	Now.	ment.		Former.	1,378	113
-	HI OF		Perma		Present.	6,075	521
	CHA		,		Last Settlement.	8,821	: .
-	7ASO.	IRNT IMENT.			Present.	32,076 8,624 6,075 1,379 1,000	99.49
57	CHAILT OF MASO- NRY WELLS.	PRESERVE SETTIBLENT.			Former.	0,501	012,1
61	CHAIL				Last Settlement.	43,867	:
	1				!	i	i
1				ي			F
-				Defails,		_	
				•	•	<u>«</u>	
ţ	1	,				K balan	no ist

TAHSIL BIYANA.

No. 9-4.—Statement of wells by quality of water.

					,		IV			٠.,				٠.	
***************************************	3				eg.		_	•							
	26			•	Видике.				,						
-	34				Total.	40,071	6,511	1,413	118	2,934	803	2,505	403	46,930	7,620
	ឌ	A.E.			Chahi Former.	6,003	1,075	301	118	202	R	\$118	8	7,883	1,323
-	g	TOTAL.			Chabi temporary present.	906	22	្ន	:	9	0	28	ន	1,000	100
	12				Chahl permanent present.	32,259	6,361	1,123	103	2,605	510	2,061	318	38,051	6,368
	8				Chahi Former.	i	i	1	:	;	; ·	1	;	:	:
	10		Аява.		Chahi Tempogary present.	35	ŧ	:	:	ī	;	. :	;	25	i
.	18	KLIS.			. Chahl permanent present.	. 22	:			!	:		:	25	:
-	17	DHENKLIS	TEMPORARY.		Not working.		ŧ	:	;	:	:	;	;	3	i i
	22		There		.Vorking.	72	:	: .	;	:	:	:	;	ñ	:
	15		HBHT.		Lot working.	1	1	:	:		:	:	:	:	1
	14		Perkanta		·Zaikīng.	25	ŧ	ļ	:	:	:	:		7	:
,	13	. 1			Chahi Former.	1,269	100	ာ	:	25	E	55	ı	1,379	113
-	12		Авка.		Chahi Temporaty present.	210	24	ī	i	16	:	ត	:	916	1 2
	11	KHAM.			Chadi permanent present.	4,628	487	130	-	138	, F	168	E E	5,075	63
	30		No. of while.		Not working.	79	0	-	:	1	i	. 61	:	**	0
-	•		No. of		Working.	893	₹£\$	16	:	22	-	ž	:	100	=
	æ.				Chahi Po _r mer.	632	5	g	:	ត		ea	8 3	88	8
	7		Ann.		Chahi Temporary.	27,600	4,874	993	190	3 2,179	203	1,803	306	32,976	6,507
ľ	0				Chahi permanent present.	5,635	473	5 271	3 118	4 233	1 60	1 363	60	1 0,501	1,210
	ъ	MASONRY.		Laos.	Not working.	1,053	283) 11		0 1231	£ 33}
	41	M	Wистя.	Ţ.	Working.	1,001	303	4 58	33	2 159k	1 30}	10 1311	3 .	\$ 2,249	1 364
	•		ΨF	Fells.	Not working.	803	\$ 26}		2				71	105\$	₹18 8 1
	64			11	Working.	1,610}	**************************************			1361	25	103		1,7761,	374
					. se									į	
			•		Details.	<u>:</u>	I		1			4	•	=	1
						Khalsa.	Nan	(Khalsa	.0; Mad	(Khalsa	H. Stan	Khalas	ia Nag	C Khalea	er E

TAHSIL BHUSAWAR.

No. 1-Area Stalement-contd.

			•	- ,	13							
26			tal.	oT	8,308	8,414	+16	8,773	1,08,810	1,22,687	+13,811	1,27,525
22	BARANI.		ur.	nda	:	99.1	+001	933		10,307	+10,307	20,823
23	-		·las:	Bar	8,308	7,420	-078	7,841	1,09,840	1,03,350	-6,468	1,66,701
8		- <u> </u>	ol.	30T	474	1,462	+08	1,420	6,320	10,834	+4,503	8,610
នួ	rba.		.hdei	neg	;	61	+10	15	ŧ	437	+ (37	230
21	BAIRADA.		mer.	For	i	12	+33	173	943	602	189-	1,666
20	[-		•4n98	Pres	474	1,422	+018	1,226	5,386	9,895	+4,509	6,708
10			.1111.	Kpu	:	:	;]	;	482	+483	376
18	.ВА.		-11	rioT	:	440	+440	614	;	2,991	+2,901	4,223
11	CHAHI SAIRADA.		ner.	Eogn	:	;] ; .	:		9	9+	83
16	CIIA		qua	Pres	:	440	+410	513	:	2,089	+2,089	4,141
16			'n	Tota	7,023	5,046	070,1—	6,238	80,398	69,417	-16,981	080'89
17	нт.		porary present.	Tem	i	2	+41	83	:	780	+780	1,467
13	спант.	NEMT.	365.	Form	61	1,570	+1,608	1,754	16,029	16,999	+ 970	16,750
123		Pernanem.	да	Prese	7,020	4,335	-2,685	4,416	70,369	51,632	-18,737	49,873
n		•	fallow.	Мой	4,771	1,967	-2,801	1,744	55,033	25,166	-29,867	27,350
2		.£13.	rassesseple State prope	Otper	:		<u> </u>	:	385	205	:	265
6			nneultivated.	Total	3,060	4,312	+1,252	3,833	1,17, 391	1,40,928	+23,537	1,30,337
8	_		•wolfa	PIO I	803	2,366	+1,475	1,891	29,127	51,558	+25,431	60,223
1	- 4	Отпива.	's	Other	1,813	1 2	-873	280	8	37,554	\$6	37,317
0	UNCULTUBABLE.	Orn		ВШа.	355	1,005	+020	1,005	83,8	44,358	1 28	44,338
-	מאכם	TB AVES.		inos8		<u> </u>	<u> </u>	:	:	·	:	:
-	·	STATE PRESENTES.		Bund	:	:	1		4,458	4,458		4,458
-	, 	<u></u> -	urea.	Total	23,725	22,016	-1,070	22,621	3,74,919	3,74,003	916-	3,74,003
_		,	Period.		Last settlement	Sambat 1955 = 1809-99	Difference	Sambat 1066 = 1800-1900	Last settlement	Sambat 1055 = 1898-09	Difference	Sambat 1050 = 1899-1000
1	-		25	Details	<u> </u>	•	MAIA				toT.	

No. 1-Area Statement-conold. TAHSIL BHUSAWAR.

			. , ,	1	•		i i			•	•	,
46			Ваманке.					<i>;</i>		2		
2		4		Ol water.	9	9		:	;	9	;	:
44	H.	Кпак.		To vater.	8	#6 	+ 2				:	:
43	DEPTH.	nX.		.191er 10	37	35		:	;	2	:	:
43		Мляоних.		To water.	33	32	+1		;	i.	;	:
#	.r.19.			Temporary.	:		7	ŧ	:	\$	+ 49	930
04	DHENKLIS.			Permanent.	;	•	7	8	es .	540	+243	255
98			<u> </u>	Not working.			2+	25	23	99	£83 +	<u> </u>
88		1.	Laos.	.Yorking.	81	8	+20	100	434	626	+191	680 .
37		кнам.		Not working.	н	8	2+	25	Ş	23	+ 33	2
30	•		TFells.	,RaizioW	138	88	02+	100	433	625	101+	650
19	wells.			Not writing.	51	20	+37	37	111	472	+355	919
96	А	лх.	Lass.	*BuidroW	250	260	+18	288	2,018	3,009	+001	3,021
33		Мавояна		Not working.	œ	33	+	23	0\$	328	+285	
33		·	TFells.	Working.	227	Z Z	110	223	2,3:5	2,150	-169	2,179
31			!	Out of norking.	83	R	ĩ	25	483	420	្ស	405
90				·laciani.	i	B. Bh.	+63 +13	B. Jh.	657	B. Bh.	4-407	n, nh.
-	N9.					<u> </u>				25 1,	+ 25	20
82	GARDENS.			.ederize	<u> </u>				i.	-		
88				Срарі.	:	H. 9.	+13 +21	II. 8.	:	и. 8. 37 41	+37 +41	73. 73. 14.
27		<u> </u>		Total cultivated.	15,804	10,209	+374	10,945	2,01,573	2,00,415	+4,811	2,09,823
73			Perlod.		Last settlement	Sambat 1056 = 1899-00	Difference	Sauliat 1050=1600-1000	Erst settloment	Bambat 1035.m1693.90	Difference	Sambat 1050=1899-1890.
-		7		Defails.	-	*11	N. I.	resident er		*211	о <u>г</u> В-44	•

TAHSIL BHUSAWAR,

		,			7 4 777.							
92			"IntoT	00,005	1,17,204	1,12,00\$	+13,320	1,17,506	783	1,270	+496	1,245
22	DARANI.		Bhor.	3	i	18,30\$	+18,301	19,882			6+	C
2	79		Barani.	99,605	1,17,201	04,600	-4,976	97,623	1 88 E	1,270	+487	1,230
8			JetoT (6,837	3,031	9,372	+3,535	2,190	<u> </u>		138	
23	À.		Barishi.	. 1	ī	418	+418	231	;	:	į	
п П	BAIBADA.		Former.	876	;	481	1 69	1,487				;
22			Present.	4,801	3,031	8,473	+3,679	6,483	18	. :	- F	
10	•	1	Khatill.	:	1	462	+462	898		. 30	+50	
18	¥.			:		2,518	+2,549	3,709				-
41	СНАНГ ЗАІВАВА.		Former.	:	•	9	9+	83	:	1		
10	СНАБ		Ргезепт,	:	i	2,543	+3,542	3,627	:	i	<u> </u>	:
12 PE			Total.	78,741	50,303	62,801	-15,043	01,170	637	070	+ 38	673
2	11.		Temporary present.	:	:	736	+736	1,389	:	6	<u>;</u>	l a
13	CHAHI.	BMT.	Former.	15,091	:	16,371	620	14,970	. 83	75	+ 23	50
13		Ревиливит.	Present.	62,750	59,393	46,691	-16,039	41,820	609	909	+	037
=			New fallow.	49,601	68,477	23,140	-26,461	25,511	061	65	-603	196
og S		·ty.	other unresessand eldseseran redio	265	:	202	:	205	:	i	:	:
6			Total unealtivated.	1,13,411	1,10,203	1,35,510	+22,000	1,31,300	020	1,100	+180	1,115
60			old fallow.	28,155	30,024	52,065	+23,910	48,207	89	127	4	126
-		sns,	Others.	88	8	35,63 \$	<u> </u>	35,302	07	078	82	988
6	UNCULTURABLE.	Отпввя.	Hills.	80,7,98	75,133	43,353	11,81	43,333	018	ŝ	+139	:
20	NCUL	ES.	Bannl.	:	:	<u>;</u>	:	;	:	:	:	:
4	ä	Stata Preserves,	Bund.	4,458	4,458	4,458	:	3,158	:	ŧ	E	:
63		_ -	Total area.	3,49,150	3,40,363	3, 18, 223	+ 43	3,48,219	\$10'6	3,131	+120	3,131
			Period 4	Last setllement	Average of G years	Fambat 1055=1898-99	Difference	Sambat 1856 - 1690-1600	Last settlement	Sambat 1955 = 1809-99	Difference	Sambat 1936 = 1899-1960
-	}		Defails.	ì		Kurrar.				"HTENYY	raI	

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46			Ввилек.										
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45		777.7)l water.	2	:	150	:	<u>':</u>	"	0	:	
2	ij	Кпам.		To nater.	ន	:	6	:		:	17	1	
64	рерти,	MBY.		-19jrw 10	21	. ;	#	:	:	:	13	:	•
. 43		MASONEY.		To water.	ES .	;	83	:	:	;	27	:	
#	KLIS.			.Vemporary.		:	46	+46	228	:	61	+	4
8	DHENKLIS.			Permanent.			241	+238	253	:		:	. '
30			Laos.	Not working.	21	,	47	+20	\$;	:	:	:
33		รูร	La	.ZuldroW	416		636	+120	831	:	1		C1
37		Ким	Wells.	Not working.	21	:	47	+20	49	:		:	:
36				Working.	416	:	638	+120	831		-	;	2
335	WELLS,		Laos.	Not working.	101	:	423	+318	470	:		:	:
31	F	Masorry.	, T	Working.	2,731	:	2,714	-11	2,713	28	g	۳ .	g S
33		МАВС	Wells.	Not working.	8	:	204	+ 262	320		:		
. 33	,		241	Working.	2,050		1,037	1 18	1,938	181	188	:	2
31				·Baidron lo tuO	6749	:	330	1 9	379		-	1	"
30				.increA	. 067	1,057	B. Bh.	+403	B. Bh.	:	:	<i>)</i> 	
. 23	GANDENS.			. Gairaba.		:	22	163 +	26	:	1	ī	-
828				Chahl.	ŧ		H. S.	+ 24 + 23	П, 9, 83 21	ŧ		i	:
27	<u></u> '			Total cultivated.	1,81,210	1,70,629	1,88,177	+3,031	1,69 052	1,133	1,969	+ 230	1,923
63	•	ŕ	Period.		Last settlement	Arerage of Gyents	Sambat 1066 = 1899-99	Difference	Sambat 1056 = 1899-1900	Last settlement	Sambat 1056 = 1993-09	Б ілетисе	84 ubat 1859 = 1.29-1000
-				Details.			Knatsa.		i		rais.	.12[

No. 1-Area Statement-contd.

26				.Total.	8,398	8,414	+10	8,773	1,08,816	1,22,687	+13,611	1,27,621	
52	BARANI.			Bbur.	i	100	+ 00+	033	1	19,307	+19,307	20,823	
122		-		·laczal.	8,308	7,120	-078	7,841	1,08,818	1,03,380	-5,466	1,06,701	-
23	-	-		Total,	\$74	1,462	80+	1,420	6,329	10,834	+4,605	8,010	-
8	BA.			Barishl.		61	+10	15	i	437	+437	230	
22	SAIBABA.			Pormer	:	21	+31	170	53.0	503	145	1,666	-
02	-	-		-tresent-	474	1,422	+918	1,226	5,380	0,805	+4,509	6,708	-
101	-	_1_		chatill.	:		:	 	:	482	+482	375	
81	3A.			'otal,	L :	446	+ 410	F19	:	2,991	+2,901	4,223	
12	CHAHI SAIRABA.	-		'ormer.	I :		: •	:		Đ	9+		
5	CHAI	-		resent	H :	410	+410	514	i i	2,988	+2,088	4,141	
"	-			otal.	7,023	5,046	-1,076	6,238	80,398	69,417	-16,081	69,030	-
;		; -		emporary present.	T	4	+41	89		780	+780	1,407	
	снані.	-	EMT.	*zautc	69 E	1,570	+1,568	1,754	10,029	16,999	+ 970	16,750	-
-	5		Prenament.	ceent	7,020	4,335	-2,685	4,416	70,369	51,632	-18,737	40,873	-
-	=		•	, wollah w	4,771	1,967	-2,804	1,744	65,033	25,160	-29,867	27,350	
	2	•	. 17:	dory nassessable State prope	10	:	:	:	205	265	<u> </u>	265	-
	6			tal unenltivated.	.T	4,312	+1,252	3,833	1,17,391	1,40,928	+23,537	1,36,337	
	8			.wolfai 1	010	2,366	+1,174	1,891	29,127	64,658	+25,431	50,221	
			133.	7618*	1,813	941	-873	937	9	37,554		37,317	
	0	UNCULTURABLE.	Отпивя	*91	355	1,005	+ 650	1,005	83,8 00	44,358	-1,894	44,338	
	10	JNCOL	A HS.	·lac	: 00	:	:	:] :	<u> </u>	:	<u>;</u> :	-
	*	, , , , , , , , , , , , , , , , , , ,	Sтатв Ревектов.	*pu	na i		:		4,458	4,458	' :	4,458	-
	е			יון שגכטי	oT 23,725	22,016	-1,079	22,621	3,7,910	3,74,003	- 916	3,74,003	-
	1			Period.	Last settloment	Sambat 1035 = 1609-00	Difference	Sambat 1050 = 1899-1900	Last settlement	Sambat 1055 = 1898-99	Difference	Sambat 1050 = 1930-1900	
				•ilis•	30a		MAN.			•2	ATOT		

TAHSIL BHUSAWAR. No. 1-Area Statement-concld.

1	l	· · ·	•	· .			3					
" 9 7			Briefs,		·							
45		**		. 10 mater.	•	9	:		1	8	:	:
44	cu.	Kulk.		То избет.	88	T.	+	3	:	12	i i	ī
£	DEPTH.	ín¥.		Of Water.	27	15	2	:	1	73	1	1
24	,	Млеоник.		To mater.	8	32	7] :	31	. :	
4	ζГ13.		-	Temporary.	:	-	7	:	:	3	+49	1 0g
40	DHENKLIS.		· - · · ·	Permanent.	:	1	+	RI .	69	240	+243	266
39 .				Not norking.	н		, ,	8	53	122	£82+	47
39		и.	Laos.	·BaidroW	18	8	+20	100	£\$.	328	+191	939
37		кнам.		Not working.	H	6	+	25	ដ	128	+ 33	7.4
38			Wells,	Vorking.	18	88	02+	100	431	625	161+	033
38	Wells.		•	Not working.	51	20	+	75	711	473	+385	610
*6	1	ſßX,	Laos.	Workings	250	200	+138	283	2,018	3,009	+001	3,021
88		Мавоних.		Not working.	8	150	+	23	0,	326	4236	843
33		٠.	Wells.	Vorking.	227	Zi Zi	ê Î	223	2,325	2,160	-163	2,170
31		,		Out of working.	63	ĘĘ	រី	26	183	420	1	405
30				Batani.	:	13, 13b, 13	+63 +13	n, nh.	490	B, Bh.	+407	n, m. m.
20	gardens.			-adaritaB	:	:	i	:	:	25	+20	28
29	O			Срарг	•	H. 25.	+13 +21	п. в. 40 0	:	II. B.	+37 +411	73 21 23 21
27		l <u>.</u>		.bożariito leioT	15,804	10,268	+37\$	16,915	2,01,573	2,06,411	+4,811	2,03,823
R			Perlod.		C Last settlement	Sambat 1055 = 1899-00	Difference	Sambat 1056=1630-1200	Last settlement	gambat 1055=1503-90	Difference	Sambat 1030=1809-1900,
-				Defails.	-	11.	, II			*272	ол В-44	

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No. 2-Crop Statement.

10			Total of both erops.	05,016	63,523	73,925	71,949	62,179	67,106	65,023	64,133	50,644 4,659	
18			Total.	47,836	49,086	61,329	62,931	45,805	42,285	40,206	47,455	30,105 3,034	91,810
14			Others.	4,021	4,937	9,330	14,180	119'8	7,275	6,202	8,467	6,172	2,007
16			Ollseeds.	CS	293	435	\$ 33	22	233	7.3	220	33	106
15			Gojra.	177	63		:	22	11	13	12	506	621
22		Rant.	. Gochal.	ŧ	1]		:	8	:	-	1	
13			Bejar.	1,363	2,201	1,341	1,048	714	889	1,263	1,208	176	. 182
13			மைற	•		123	63	83	"	676	156	89	# # # # # # # # # # # # # # # # # # #
Ħ	снант.		Barley.	25,410	23,736	21,793	20, 65	23,262	25,273	23,677	23,557	20,310	21,830 .
10			Wheat.	10,173	17,733	18,247	16,844	12,016	8,838	8,313	13,830	6,481	6,771
e			Total.	18,080	15,436	19,507	10,018	16,284	14,910	14,817	10,677	14,450	10,565
80	-		Огрегя.	913	438	373	491	210	740	1,600	770	1,660	2,127 190
-			Til	1	:	:	:		:	ន		330	376 41
•		Киляю.	Gawat chartl.	:	1	1	:	:	:	4	н	48	130
ю.		Ä	Nesine.	1	:	1	;	:	:	#	•	432	-423 60
*			Jonar.	:	1	:	:	:	:	8	ដ	10	1,228 61
			Dolra.	:	:		:	:	:	8	٥	661	3,601
			Cotton.	707,71	14,003	10,224	18,627	15,373	14,161	12,950	16,873	11,167	11,630
			Bambat 1018=1891-03	f Bambat 1910=1892-03	Sambat 1060=1803-01	68mbat 1051 = 1804-05	Sambat 1951=1807-00	62 Bambat 1053=1890-07	Sambat 1061-1897-99	Average of 6 years	Bambat 1985=1898-99{Khalea	Sambat 1080=1800-1800 {Kbalsa	

TAHSIL BHUSAWAR.
No. 2-Crop Statement-contd.

37			egord alod of lator	· ·	:		ŧ	ŧ	· :		1	2,383	3,767 516
98			Total.	:	:		;	ī	i	ı	1	2,284	3,410
. 36	•		Ofpers.	:	:	:	:	i	:	:	i	161	200
34			. Ollaeeda	:	E	i.	:	i	ı	I	:	22	30
83			.erioĐ	:	ŧ	:	***	:	:	:	ŧ	275	245
33		Babt,	.ladoob	:	:	i	:	:	:		:	83	00
31		1	Bejār.	i	ŧ	ŧ	***	:	•	ŧ	ŧ	64	70
30	ABA.		,m£19		=		*	•	:		**	68	3
20	СНАНІ ВАІВАВА.		Валеу.	ŧ	;	:	:	ŧ	ŧ	ŧ		908 317	1,904 360
82			.VP.deac.	1	:	:]	:	:	1	:	. 627	677
27			Total		:	:	999	3	:	ŧ	ŧ	98	367
28			essetiO	ŧ	:	:	÷	ı	:	:	i	10 3	\$8
28			"lit.	;		1	:	:		i.	ŧ	69	: 13
22		Кпавів.	.irredo rened	ŧ	:	i.	:	i		:	i.	.a. 	* :
82		Ä	Nasina.	:	:	, :	1	:] 	3	3	. 1	
23			10M1K.	:	:		:	1	:	:	ž	G 43	
12			.enled	:	:	ŧ	:	:	:	:	ŧ	8 6	£ :
20				ī		ŧ	į	:	1	ŧ	**	19	
1			Dotaila,	Bambst 1943-1801-03	C Sambat 1919=1893-03	Sambat 1050=1893-94	82mbat 1051 = 1804-05	85mbat 1052ca 1605-06	68mbat 1053 = 1806-97	L Sambat 105 ter 1697-09	Averago of Gyears	Sambat 1985 - 1898-09 { Alag	Edmbat 1939=1899-1890 { Kindea

No. 2-Crop Statement-contd.

39 40 41 43 43 44 45 45 47 49 40 60 51 63 63	SAIRABA.	Киллу.	Hejra. Jasina. Gawar charri. Til. Til. Total. Barley. Barley. Golra. Golra. Others.	650 628 1,007 1,470 171 213 1 8	373 338 1,275 7 7	65 310 11,168 687 6 29	876 182 1,908	258 883 131 103	231 296 305 224 13 118	4 410 316 25 35 8 807 214 440 2,533 1,063 1 44	1 70 63 4 6 1 135 318 408 1,220 918 2 2 48	39 621 691 163 126 66 1 1,480 497 600 4,321 813 1,617 66 72 31 236 101 102 38 21 2 600 7 7 470 113 357 26	16 452 1178 340 160 103 16 226 314 555 895 1,243 672 130 70 23 78 235 94 43 14 2 466 71 3 147 368 161 6 30
1 88		:	Details.	Gambat 1919=1801-02	Sambat 1040=1602-03	Sambat 1050=1803-01	Sambat 1031=1501-95	Sambat 1052=1805-96	Sambat 1053=1606.97	Sambat 1051=1507.98	Average of 6 years		Sambat 1086=1690-1970 {Khalsa

No. 2.-Crop Statement-contd.

. 52	,		egors thod to lete?.	1,20,603	1,12,838	1,30,309	1,42,603	1,15,334	1,21,123	1,41,300	1,32,841	1,40,331	1,11,833
g			. Total.	20,223	15,919	12,083	30,105	4,912	193	17,373	13,120	6,899	1,010
71		•	Others.	:		63	.	:	:	24	13	1,050	60
. 02		•	Sarson tara.	113	72	100	11	:	98	127	83	: 18	
69			.eslob	1	ŧ	:	į	1	i	į	;	: :	: !
83		Rant.	Gochal.	i	ij	;	i	÷	i	i	. ‡	ŧ :	: :
29		,	Belat.	331	316	11	461	74	ŧ	99	166	4	: :
99			Gram,	19,776	15,590	11,841	20,663	4,739	162	17,116	13,185	6,761 401	п ::
£8	BARANI.		Darley.	ŧ	3	n		:	:	6	લ	16 2	30
. 64	*		AcadVV			f	i	ï	ĭ	i	:	: :	: :
63	-	,	Total,	1,09,370	1,26,919	1,18,286	.1,12,607	1,10,622	1,24,231	1,23,928	1,19,415	1,34,132	1,40,522
63		,	ого брега.	485	489	417	477	195	280	109	400	560 38	735 50
150		,	.nz	1,210	2,148	2,419	2,173	3,819	1,611	1,665	2,230	346	5,189
99		Килвів.	Gawar charri.	201,187	65,773	19,703	13,003	200*19	40,569	0,230	41,397	10,350	13,220
63		Ku	.ulank	4,002	5,905	3,811	1,693	2,219	1,000	25,028	2,617	270'E	41,441 3,300
. 63			Jowar.	28,413	30,011	411'05	36,053	29,780	34, 193	27,315	31,609	28,220	2,523
29			Bajra.	21,216	21,611	10,695	23,208	23,371	13,263	53,773	31,835	53,161	49,350
υğ			Cotton.	2,559	1,403	16912	3,730	1,163	2,050	1,357	2,223	10 086	1,31 <i>6</i> 133
			Details.	Bambat 1049-1291-02	Bambat 1940=1602-03	Bambat 1930=1503-91	8ambat 1051=160f-95	Bambat 1062=1805-06	Sambat 1063=160f-07	Bambat 1851#1607-98	Aretago of G years	Sambat 1635-01503-00 (Rhalea	Eambat 1950=1899-1900 { Khalsa

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No. 4.-Statement of Sales and Mortgages.

			٠ ، ا						1
18			Rinkarks.						
			RB		•				
41			Rato per bigha.	Вв. А. Р.		0 6 0	12) 63	H	
16		Salbs.	Price.	RB.	1,072	780	3,148	6,000	-
35		8	Uncultivated.		1,617	010	020	2,847	
14	-1899.		. Cultivated.		1,704	1,389	1,237	4,330	
13	FROM 1890—1889.		Rate per bigha.	Вв. А. Р.	€ ₹	1 0 11	3 14 0	4 1 6	-
21		Mortgage.	yorigage monet.	B	0,092	1,078	2,622	0.702	
H		Мокт	Vnenltivated.		310	103	89	087	-
10			Cultivated.		1,427	189	07.0	2,767	-
C			. adgid 10q siafi	Rg. A. P.	1 14 9	(C)	8 8	1 10 0	-
8		Sales.	Price.	138.	0,613	6,732	4,910	20,256	
7	-	₹S	Uneultiyated.		5, 196	3,091	1,978	11, 555	
0	55-1689.		Cultivated.		4,063	4,203	3,271	12,406	
a	FBOM 1855-1889.		Rato yer digha.	Rs. A. P.	ი ი	. 61 . 64 . 8	5 9 11	D 10	,
-		Morraldes.	Nortgage monet.	Rs.	10,138	920	11,617	31,675	
8		Mor	Uneultiyated.		1,306	30	1,336	2,648	
69			Cultirated.		3,553	318	2,067	6,637	
		1			:	1	į	:	
					;	1	:	, :	
			Details.		To Zamindars of the same village	To Zamindars of other villages	:	. Total	*
					To Zamindara	To Zamindars	To moneylenders	,	

No. 5.-- Statement of cultivation.

1	. 1	,			1	I		۱,		1	,	!	1		ī	}		ı
	22			Raviore.	,								1	•				
				<u> </u>	3	ž.	ж.	!	;		ä			g ×	i i	뉡	K.	
	25	Aveelds rest edr			.00 amulos ni sore nO	Rs. A. P.	2 20	3 10 6	61 0	# O	136	83 60		1 1 0	0 16 0	0 14 0	1 6 11	
	23	Ауввабв			On area in column 18.	Rs. A. P.	3 14 0	2 10 0	:		0, 9 1	•	-	1 3 0	100	1 1 0	113 7	
. :	23		, ·u	[# r-] 10-5	taeast gd bled sonk letoT	27,888	2,073	1,347	304	6,231	830	487	İ	233	77,478	0,520	1,12,631	
	11			ent,	Rubeca•		5,021	2,700	608	7,116	288	1,038		163	610,10	£,632	1,38,467	
	20.	LL.	ij	By other rent,	Area.	22,767	2,154	1,051	303	4,714	607	467	1	S	67,518	6,383	900,008 B,847	
	19	area helo and rent paid by tenants.at.will.	САЗИ ВВИТ	chh.	17apeca,	15,684	1,887	768	<u> </u>	000	ê 			15	10,024	1,101	8,133	
	16	TENLN'		By dhal bachh.	- Area	4,063	65-4	208	.	Ç09	<u> </u>		1	á c	<u> </u>	1,103	15,449	
	17	AXD B			gabeca*		:	1	-		<u> </u> 	<u>-</u>	1	::	<u> </u>	+		\cdot
	16	BENT E	Сляп ввят.		Area,		<u>.</u>				:			<u> </u>	:	-	::	1
	15	AND I		 	Total area under batal.	160	163	88	:	~	:		\dashv	₹ :	#g	38	200	
	14	него	ė		Fixed.	ï	4	:	;	;	;	:	Ť	::	 	7	÷ 4	
	13	AREA	Redy in kind		One-loarth.	144	47	83	:	:	:	:	İ	₹ :	្ត្រ	~	22 ====================================	
	13		Rage		One-third.	77	82	:	:	÷	:	:	1	: :	ន	8	3 E	g
	11				Half or more.	-		:	;		:	:		: :	15	4	8 8	MMan.
1	0			Detalle.			:	i	=			:		~~ ::	\ \frac{1}{1}		} y	-Kh-Khalsa,
	1			<u>.</u>		1,010		Chahl	Safraba	Bairaba		Khatili		Barlshi	Barani		TOTAL	AN T
	. 6	r occu-			.letoT	536	4,200	6,088	-	65	~	=	323	320	678	4,631	0,310	Note,
	8	Abba cultivated ny occu- rance terants.			At other cash rate.	308	2,303	3,804	:	=	i	٥	109	140	311	2,413	4,053	
	2	Авва сос	Malikana.	thout	in to diin state 130 ano th	. 231	1,903	2,084	-	8	ES	28	213	117	267	2,110	2,283	
	. 9	DENT OR	owner.		Hapees.	ŧ		;	:	:	*	4	-;	:	4	:	:	
	6	S FRES OF IAN OWNER	Lees than owner's rate.			47	13	4.	:		:	;	2	2	4	20	11	
	4	By traints pars of hent or at tres than owner's hate,			-taos 10 eorz	697	6,605	:	12	123	:	eg.	403	;	260	6,189	1	
	e				Sultivated by countra.	5,520	69,338	1,38,158	Ħ	880	209	269	4,034	4,583	0,133	73,029	1, t3,317	
					Total cultivated area.	11,711	1,50,308	3,07,209	. 180	1,960	2,687	1,613	16,367	19,105	10,510	2,07,015	3,29,330	
							"			ž	; .	;	<i>i</i> .	ī	:	:	1	
	1		Detalls.				Area	Rupres	Roldings	Area	Rupecs	Holdings	Arcs	Rupees	Roldings	Area	Пареся	
					f Holdings	· · ·	<i>د</i> ــ		Tetanske			<u>-</u>	<u>ا</u>	<u></u> `	ï	·		
							KRAL			Ista			MAN	l	w . A	Jores	1	
•						KRALBA						в-46						

No. 2. -- Crop Statement-concld.

			t	řo	, E	e	8	g	8	8	<u> </u>	g g	15 52
0,			, Патапі,	1,18,075	1,30,653	1,18,830	1,21,200	1,06,106	1,12,899	1,23,186	1,19,313	1,15,332	1,10,501
90	æ.		• pdriis	4,912	3,229	2,551	3,803	970	1,687	1,973	3,016	9,870 5,871	7,591
28	CULTIVATED AREA.		Chahl Sairaba.	ì	:	:	:		:		:	2,518	3,709
36	CULTIV		Chabl.	63,319	61,673	021,80	01,930	60,518	53,914	61,700	62,070	4,339	61,906
			Total caltivated.	1,56,330	1,95,555	1,89,561	1,93,022	1,66,624	1,63,400	1,80,803	1,82,339	1,91,277	1,93,007
50			Dofasli,	1 252/51	16,006	18,452	189'92	12,980	16,076	22,401	18,759	11,611	10,062
16		}	*Porn alod to factors	2,00,421	3,10,589	2,06,850	2,18,614	1,78,483	1,83,305	2,02,325	2,00,027	2,02,701	2,03,069
 e			.laioT	72,871 2,	68,231 3,	68,007	56,089	1 220,119	44,161	62,773	63,800 2,	4,910	4,332
69			Officers.	4,027	4,937	0,482	14,189	8,008	7,393	00840	8,534	7,461	4,212
89			Sarson tara.	202	311	516	100	22	202	502	280	362	305
87			Gojra.	985	8	:	:	ដ	14	122	- -	1,066	7.00
99			Goehni.	171	-	:	:	:	12	<u> </u> :	_ا	1,001	161
85		Валт.	Belace	3,176	3,815	1,999	2,900	830	812	3,282	2,289	1,056 1	3,70
8.1			Gram.	21,713	16,865	13,181	31,623	4,957	897	20,321	14,561	0,259	117
83	1		Barley.	25,044	21,075	25,105	20,717	23,611	26,008	21,126	23,001	21,909	21,275
82	TOTAL		VPheat.	16,723	18,105	18,701	17,220	13,20%	9,129	8,520	14,148	0,005 705	6,063
18			'Lotal,	1,27,450	1,43,355	1,37,833	1,31,625	1,26,606	1,39,141	1,39,552	1,36,227	1,50,469	13,631
03			Othere.	203	926	780	908	1,037	1,029	2,280	1,183	2,137	2,063
7.0			.liT	1,210	2,138	2,410	2,172	3,818	1,611	1,588	2,303	4,417	6,670
7.8		i	Gavat chartl.	51,167	55,773	48,703	43,093	200'19	40,569	0,278	41,404	10,535	13,531
12		Кпапів.	"naisak	4,002	5,905	3,811	1,885	2,218	1,006	25,063	0,653	37,394	3,471
22			.12ToL	28,613	39,631	40,117	36,052	28,750	31,493	11.7,72	31,074	23,093	33,061
25			Balta.	21,213	21,511	19,605	21,208	23,271	43,203	50,217	31,914	54,666	52,415
12			Cotton.	20,355	10,401	21,818	23,257	16,555	11,71	11,341	19,090	12,220	13,100
		<u> </u>) [i	1502.03	1503.04	1891-95	1695.93	1690-07	· :	1	: : g	(Khalsa
1			Petalls.	20-1691 =8701 9 1 901-82	Sambat 1019=1502-03	Sambrt 1050=1503-01	2 Sambat 1931=1891-95	Sambat 1052=1695-96	5 Sambat 1053=1696-07	L Sambat 1051=1807-93	Average of 6 years	Sambat 1035=1503-09 {Khale	Sambat 10č0=1600-1000

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TAHSIL BHUSAWAR.

No. 3 .- Statement of realisations and balances.

	1		2	3	4	5	c	7	8	9	10
					REMITTED	OR REDUCED.	BAT	LANCE.	JAMA OF BI	ESUMED ARBA.	
	Period.		,								Remarks.
			Total jama.	Realized.	Remitted.	Reduced.	Realized.	Still duo.	Reallsed.	Balance,	
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	,
	Sambat 1912=1855-56	•••	1,50,851	1,48,789			0	2,01,399	55		
4	Sambat 1915=1859-59	•	2,01,237	2,00,256	14.0		1,413	2,07,491	219		
	Sambat 1918=1861-62		1,80,645	1,60,645	•••		2,635	2,06,992			Bhusawar.
	Sambat 1920=1963-64	****	24,856	24,656	` "	***					Bullabgarh.
,	Sambat 1928=1871-72		2,25,003	2,21,656	100		1,101	28,002	351	23	
	Sambat 1939=1892-83		2,56,197	2,41,903			46,171	3,15,294	6,302	697	
	Sambat 1947=1890-91		2,71,109	2,61,016			15,796	8,75,910	101	17	
	Sambat 1019=1891-92	, 	2,72,415	2,66,005	***		5,802	3,81,611	116	175	
À	Sambat 1919=1802-03		2,70,697	2,62,643	***		7,113	3,69,423	100	329	
	Sambat 1950=1893-91		2,71,426	2,61,650			10,003	3,97,097	1,034	***	
	Sambat 1951 =1894-95		2,71,069	2,06,354			7,151	3,85,721	1,121	135	
	Sambat 1952=1695-96		2,69,911	2,19,238	631		3,650	4,09,075	640	407	,
	Sambat 1953=1896-97		2,69,253	1,99,511			5,743	4,78,230	697	362	,
	Sambat 1951=1897-93		2,60,260	2,50,193	* ***		20,415	4,50,108	1,193		
į .	Sambat 1075=1893.99		2,62,569	2,49,3\$8	,,,		14,319	4,59,217	1,137	103	
	Bambat 1936=1999-1900	,, ,	•••		•••					,	

No. 4 .- Statement of Sales and Mortgages.

			•		, ,,,,				1
18			Renars,						
			E						
17			Rate per digda.	Bs. A. P.	e n	0 0	63 00 170		
16		Вагия.	Price.	Bs.	1,072	. 282	3,148	6,300	
15		κά	Uncultivated.	<u> </u>	1,617	010	620	2,847	
3.5	90—1699.		Cultivated.		3,703	1,389	1,237	4,330	
13	FROM 1890-1889.		Ante yer bigha.	Rs. A. P.	44 42 63	1 9 11	3 14 0	4 1 6	
នា		Mortges.	yorigage money.	Br.	200°2	1,078	2,623	9,792	
11		Mor	Uncultiyated.		310	103	89	450	
10			Cultivated.		1,427	199	67.0	2,707	
G			Rate por digla.	Bg. A. P.	1 14 9	ια Φ	1 8 0	1 10 0	
8		Salas.	Price.	Re.	9,613	6,733	4,910	20,255	
-		va va	Uncultivated.		5, 196	3,981	1,978	11,55	
0	FROM 1855—1899.		Cultivated.		4,963	4,263	3,271	12,400	
5	FROM 1		.cd2id r9g etcI	Rs. A. P.	ω ω	ख बृ	6 9 11	© 15	/
*		Mouraldze.	yorigago money.	Bs.	19,138	920	11,617	31,075	
6		Mo	Uncultiyated.		1,306	30	1,336	2,018	
61			Cultirated.		3,553	318	2,037	6,037	
		•			:	:	:	:	
					:		:	. ::	
			Details,		To Zamindars of the same rillsgo	To Zamindars of other villeges,	To moveylanders	Total	
i	1			1	To Z	To Z ₂	Po m	ļ	

No. 5 .- Statement of cultivation.

1	1				ı		, ;]	,	l	ĭ		ţ	1		į
8			Bunlans,	,				!		•	,						
			- E	i	Kħ.	ž	Kh.	ਸ਼ਂ	ij	M.			# #	Kb.	ដ	K K].
25	BRHT POR			On area in column 20.	Rs. A. P.	63 62	3 10 6	0 10	1 8 0	136	2 2 3		1 1 0	0 14 6	0 14 0	1 6 11].
23	Аурал да ва ва ва ва ва ва ва ва ва ва ва ва ва		,	On area in column 18.	Rs. A. P.	2 14 0	2 10 0	1	1 15 9	0. 0 1	:		1 2 0	1 0 6	1 1 0	113 7	
23		•11	iv-16-21	Total area held by tenan	27,898	2,073	1,347	304	5,231	830	467		233	77,478	6.620	1,12,695	
a			rent,	*səədny		5,021	2,730	608	7,116	086	1,036		153	610,10	4,632	1,38,457	
: 82	1121.	4.7	By other rent,	A163.	22,767	2,154	1,051	30.8	4,714	607	467	1	163	819,79	6,383	8,647	
139	AREA HELD AND BENT PAID BY TENGNTS-AT-WILE.	CASR DRYD.	achh.	тупъеся•	15,634	1,867	768		000	\$:		15	10,024	191'1	27,513 8,133	
188	NAT TE		By dhal bachh.	Area.	4,063	654	208		002	ຊ	:		<u>a</u> =	0,678	1,103	15,449	
12	PAID	HWT.	<u> </u>	пробеса*	:	:	;	;	;	:	;		; ;	;	:	; ;	
16	RENT	Слеп внят.		Area	:	:	1	1	:	:	:	Ì	: :	:	:	: :	7
12	AND			Total area under batal.	169	165	28	:	*	:	:	1	₹ :	288	8	528	1
12	HEL	ģ		Fixed.	i	; ₩		;	; :		i		: :	:	-	: 4	
13	ABEA	Ввит и вир		One-fourth.	144	47	28	:	:	:	:		87 :	300	2	11,	
22		Bar		One-third.	15	14		;	:	:	;		: :	ន	8	3 E	별
=			Half or more.			:	:		:	:	1_	: :	15		ខន	M.=Mad.	
1.0			Details.	ì		}		lba		~	:: #		₹ s _t	7		Toza {	Kh-Khaiss,
_							Chabl	Sairaba	Bairaba		Khatili		Barishi	Baran			11
0	RY OCOU-			.letoT	838	4,200	5,088	-	, s	69	=	323	320	678	4, 631	0,310	Noze
8	Arba cultivated nx ocou-			At other cash rate.	308	2,303	8,804		;	;	*	100	140	118	2,413	4,053	
1	Аява со	Nalikana.	trouti	n to utiw etsterato nith or	. 231	1,803	2,084		-	63	28	E	111	1 52	2,110	3,203	
0	e neme on	Lees than owner's rate.	 	gabeez•	:	:	:	:	:	;	-:	:	:		:	:	
9	BY TENAMPS BURB OF DEMT OR AT DESS THAN OVNER'S BATE.	Less tha		. Area.	*	1 21	"		:	:	;		-	-	20	=	
*	By treat			Free of rent.	288	5,605		27	123	:	g.	<u>\$</u>	;	200	0,169	:	
6				Califyated by owners.	6,620	66,334	1,38,158	13	8	402	202	4,034	4,583	6,133	73,028	1,43,217	
-				Total cultivated area.	17,717	1,60,303	3,07,209	. 180	1,963	2,687	1,613	16,367	19,165	19,510	2,07,015	3,20,330	
					i	1 -1	1:	:	-	i	= (;	=	:	i	=	
			Detaila.		Noldings	Area	Rupees	Holdings	Area	Rupecs	Holdinga	Arca	Rupécs	Holdinga	Area	Rugièca	
		,	ñ		-	, .	<u></u> 5	آ آ	<u>'</u>	ا تــا			ا <i>-</i> -ا	ت			
	,								Terrall.		,	1	ļ		212		
	_		K		i	Ist		i	Min	i	в-4	C Total	1				
					Kaleh						в-46						

No. 6 .- Statement of rent by class of soil.

		1			2	3	š	5	6	7	. 8
						Cash epris.			Omner's	SHARE OF OPS.	
-	المنو ومنسو سعام د	Dotalis.			Area,	Bent.	Rate per digha.	Menial's share of crops.	Share.	Arca,	ERMARKS.
	Capadrage 10	ſ				Bs.	Вя. А. Р.				
		Permanent prese	n t	•••	22,300	64,401	2 14 9	•••	3	144	
	Сили	Temporary presen	at		454	9 27	209	***	•••		
		Former	***	•••	6,442	12,123	114 0	***	3	5 9 27	
	Сплиг Влигала.	Present	***	:	1,064	2,806	2 10 0	, 273	ì	28	
	Спапт Ва	Former ,	***	***	2	3	180	340	***		
KHALSA,	Kbatili	***			467	1,036	2 3 6		***		
•		Present			4,714	7,116	1 6 9	***	i i	7	,
	Bainana,	Former	···		260	360	170	***	1	10	
·		Barishl			143	.153	1 1 0	eee	à	49	
	Даплят.	Barani	234	,	£0,063	49,061	0 13 9	944	{	59 26 153	
		Bhur			10,743	6,400	085	*10	44+		
		Total	Ped	111	20,639	1,89,457	100	637		65 37 420	

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No. 6-A.—Statement of rent by class of soil—contd

	No. 6-A.—S	tatement (of rent by	class of so	il—contd	<u>.</u>	6
1	2	8	4	5	6 ,	7	
1	-\- 	CASH RENTS.			Сис Омиже, а	BRADE OF	
Details.	Атеа.	Rent.	Rato per digita.	Menial's dues.	Share.	Arcs.	Ermyrg.
Permanent present	2,115	4,900	Rs. A. P		Fixed	62 69 4	
Temporary present	3	0	60 1 8	6			
Former	6	1.	646 1 12	0	11	1	7
Chahi Sairaba present		304	603 2	4 0			
Present	***	807	995 1	3 0			
Former		17	12 0	11 3			
Barishi			111				
		3,023	2,770	011 8	{	red	16
Dynauti.		503	201	0 0 6			
Total		E,647	11,536	150		ł ł	. 42

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TAHSIL BHUSAWAR.

No. 7.—Statement of ownership by tribes and tenures.

	No. 7.—State	ment of	ownershi	p by to	ribes an	nd tenure.	8. ′			
1	2	_ 3	4	5	6	7	В	D	10	
		Number	OF OWNERS.							11
Tenures.	Leading tribes,	Present,	Absentees,	Number of proprietary holdings,	Total area.	Cultivated.	Jama in the past year,	Number of tenancy holdings,	Namber of tenants,	Efratis.
Zamindari puro 1 J.	at {	2,960 209	Rs. 770	P48 :	Rs. 1,47,285		Rs,	Rs.		Khalez,
Zamindari joint 20 Bro	nhmans {	879 390	263		36,761 9,639		3,098	•••	K	halsa.
Pattidari perfect 9 Guja	11	1,145			088	830			··· Khe	
Pattidari imperfect 102 Mina	: :	6	65 263			500 24,534 95	5	•••	Khale Mafi.	
Bhayachara perfect 1 State pr	operty	***	78	10,016 16		5,550	***	***	Rhalsa.	A
Eharachara imperfect t Other	{ 1,375		133	40, 309 4, 233	31,128 3,313	42,733		1	Khalsa.	
State property 6 To	6,629	1,000			1,01,277	2,71,123 7,541	C78		Thalsa,	

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No. 8,-Statement of Cattle, carts and population. TAHSIL BHUSAWAR.

22			Brkaure.		,			
12			· LatoT Danza		69,703			
20	-		Мощевъ	27,013	30%56			
-	-	Total.	уусь.	101,46	905,75			
- n	ATION.	ons.	Momen	11,334	4,013			
- E	POPULATION.	Nox-cultivatons.	Nen.	13,609	4,650			
-	-		•иошер•	10,000	28,103			
F	-	COLLIVATORS.	Дел•	20,086	510,52			
-	-	"	Carts.	3	89			
-	= -		.deioT	\$ 652 ° C95	70,523			
-	<u> </u>		Camels.	33	137			
-	= -		Zinles.	Ē	Ē			
.	= -		Donkeys.	918	1,732			
	<u> </u>		Horsez-	144	. 19			
	6		Speep and Eogia-	10,203	16,320			
•	8 -		He-Pattalocs•	000	\$70,6			
			•səoirilud-ədi	908.	14,22			
	-		*8.40	520'	24,010			
	10		Xep.•	(8)	14,780			
,			•sq8101	748.	6,673			
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No. 9.—Statement of Wells, &c.

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14			last	odi reila de	New wells au.		35	ä		
13		-		+9[34	ea tacledt r	Working after ment,		141		
13				-72	et trdars	Working in		7,608	820	
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<u> </u>			Suttemmer, 1917.	Working,		Laos.		2,901	i i	
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ec			HBHT.			Temporary.		778	ą	·
	BILAM.		Рвизнит вигринит.	Permanent.		Present.		9,860	808	
-	M	` -	Para	Per		Когшет.		1,640	203	
10				···	•tasme	Lust Settl		176,7	625	
-			Pankbyt Britzbunt.		····	Present,		43,979	9,949,	
	MABONRY.			·		Former.		14,169	1,422	
	•				Last Bettlement.			71,373	6,108	
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TAHSIL	

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		-				Details.				Ewent		t llo		Hard	1,100			1	Torre

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APPENDIX A.

Rainfall.

APPENDIX A.

r. Rainfall of Tahsils Rupbas, Oochain and Biyana,

						-				-	-							
Name of month.	h, Tahsils.	. 1886-87.		1887-88.	1838-89.	1889-90.	1890-91.	1891-02.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97.	1897-98.	1898-99,	Total.	Average.	1899-1900.
April	Rupbas Oochain Biyana		<u> </u>		04. :: ::			1 1 1	: : :	: : :		£1. £0.	: : :	: : :	£ 1 1	. 20 . 20 . 23	20. 20.	.05 .70 .23
Nay	Rupbas Ocohain Biyana		1.0	: : :	: : :		: : :	.30	1.65 1.70	1.75		 .91 20,		.11	.29 .16	3·47 4·69 2·12	27 .36 .16	·62 1·82 ·47
June	Rupbas Oochain Diyana		3.00	80.	.01 1.70	.50 1·10 1·90	6.50 6.00 10.30	.03	1.06 3.50	.58 1.08 1.66	6.36 3.18 4.27	1.80′ .55	2·19 2·00 2·50	1.63 2.76 3.10	92. 94.4 9.50	21.77 27.19 35.14	1.67 2.09 2.70	, 15·30 13·23 15·3 2
July	Rupbas Oochain Biyana		15·0 9·9 11·10	1.59 13.8 16.00	9:90 7:65 11:40	7·10 3·90 6·95	9:30 4:70 6:25	2:87 -73 2:70	6.78 6.11 7.74	.69 11.05 18.35	4.20	3.78	33.32	89.8 89.8	11·14 12·10 13·28	88.93 91.28 120.96	6.84 7.02 9.31	8.55 7.59 8.28
August	Rupbas Oochain Biyana	3 3	6·90 5·3 3·60	12:90 13:40 7:40	11:10 7:80 10:20	15-70 14-70 22-90	6·30 7·10	11.56 - 16.81 19.10	7.43 6.09 12.24	5.40 4.94 2.39	14.96 12.79 21.88	4.65 4.65	2.28 3.01 1.00	6.62	5.94 7.23	110.61 109.90 124.88	8.45 9.61	.29 .48 .14
Soptember	Rupbas Oochain Biyana		.300	2.50 3.06 5.08	5.90 3.50 3.40	: : : *	3.40 2.90 1.60	15.92	7.46 7.46 8.81	4.59 1.90 3.35	3.39	1.08	1.50	3.08	09. 67-I	51.74 44.70 46.97	3.98 3.44 3.61	.18
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*	Rupbas	-:	24.17	17.07	27.61	8 -3-30	25.60	30.08	23.22	11.26	27.53	15.94	9.46	23.61	18:30	277.44	21.34	25.44
Total 6	Oochain	<u>:</u>	18.54	30.56	20.65	19.70	20.70	30.53	21.42	20.12	24.42	11.22	9.83	24.30	25.67	277,96	21.38	24.00
	Biyana	:	17.64	28.48	25.04	32.25	21.90	38.10	29.75	25.75	37.34	18.36	8.00	23.41	24.28	330.30	25.41	24.44
	Ruphas	:	.30	:	01.	08.	:	1.00	<u> </u> :	-40	:	:	:	60.	:	2.03	. 23	
October	Oochain	:	99.	:	 :	· :	:	1.10	:	08.	:	:	:	.08	:	2.58	.50	:
	Biyana	·	0.40	:	09.0	:	:	:	:	<u>.</u>	:	:	:	:	:	1.00	80.	:
	Rupbas	<u> </u> :			og.			<u>.</u>	:	.41	:	:	7°E.	:	:	-95	40.	
November	Oochain	:	:	:	:	:	:	:	:	.20	:	:	•43	:	:	.63	40.	:
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	Ruphas	<u> </u> :	:	:	<u> </u> :	:	.50	ŧ	-80	i	1.22	.13	.30	:	-39	3.04	83.	
December 3	Oochain	:	:	:	:	:	:	:	98.	.79	3.00	ı.	•46	:	:	4.92	.33	:
	Biyana	:	:	:	:	:	:	:	-05	;	1.24	i	.50	•	60.	1.58	.13	ŧ
)	Rupbas	:	:	-50	1.40	.20	:	.50	Et.	29.	1.32	2-10		e	:	7.54	.58	9
January	Oochain	:	:	.50	.89	.30	:	-50	.30	1.47	1.13	.93	•18	:	:	4 91	-38	14
	Biyana	:	-20	1.05	07.	:	•	07-	.10	2.00	1.02	:	.01	:	:	5.48	-43	:
	Ruppas	<u> </u> :		:	08.	1.10	:	:	:	.25	į	.56	25	:	:	2.96	, 83.	:
February	Oochain	:		:	.10	99.	:	:	:	.83	:	07.	:		:	1.92	.15	i
 -	Diyana	:	;	-30	02.	:	:		:	:	2.10	:	- <u> </u> -	2 87	:	26.9	94.	:
	Rupbas	 :	:	:	09	:	.50	1.00	:	55.	:	-16	:	:	· •	2.03	-16	
March	Oochain	:	70.	:	:	:	:	1.40	:	·15	.21	-45	.13	:	:	2:37	.18	٤.
	Biyana	:	- <u>-</u> -	:	\ :	02.	2.50	<u> </u> -	:	:	1.20	-		*	:	3:00	.30	:
	Кирвая	:	uę.	.50	3:30	2.10	07.	2.50	1.53	1.83	2.51	5.83	68.	•33	66.	19.50	1.50	90.
Total 6	Oochain	:	19.	05.	06.	0 ç .	:	2.70	1.16	4.03	3:31	1.29	1.19	.68	:	16.93	1.30	14
	Riyana	:	-30	1.35	2:30	05-	2.50	04.	115	2.54	5.56	:	-31	2.87	60.	19.17	1.48	:
	Rupbas	:	27-12	17.97	30.01	25.40	26.00	33.18	2.4.76	13.00	29.76	18-83	10.35	23.94	18.69	TO-966	22.84	25.60
Total year }	Oochain	:	19.18	30.46	21.65	20.60	20.70	33.23	. 22.58	24.75	27.76	12.61	11.03	24.88	25.67	294.80	32.68	24:14
	Biyana	:	18.21	29-83	27.34	32.45	24.40	38.50	29.90	28-29	42.30	18.36	8:31	10.40	24.37	349.47	26 89	77.78
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APPENDIX A-conid. Rainfall of Tahiil Bhusawar.

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Average.	.08	.18	2.06	8.69	9.46	3.77	24.96	•15
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1895.96. 1896-97. 1897-98.	£0.	20.	4.06	5.36	3.93	50.	14:43	: :
1895.96.	.24	60.	3.13	3.01	4.71	.65	11:83	.
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891.92. 1892.93. 1893.94. 1894.95.	: :	.46	1.98	11.78	2·68 3·08	2.58	19:48	: :
1892-93.	: :		.20	5.48	11:46	6.87	34.57	·46 ·05
	: :	09.		5.63 3.88	5.30 5.84	21-11	36•74	62 ÷
1886.87. 1887-88. 1888-89. 1889-90. 189C-91.	 	: :	8.20	4.70	4.30	4.05	21.25	: :
1889-90.	99.	.25	2.00	11.05	16.75	.30	30-30	: :
1888-89	: :	: :	90.	11:30	10.60	3:90	21.09	0g.
1887-88	: :	: :	60.	13.45	12:30	5.06	27.86 30.26	. : :
1886.87	: :	1.07	1.40	14:05	6.70	·15 1·40	23·37	. 10
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APPENDIX B.

Crop Experiments.

10 h. ...

Statement showing

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	Oschain	•••	•••		1955					1	.3	1	1.2	•••				1	63		- 1	- 1		***
ĺ		•		i	1056	"	•••	"		- [-"		. 3'8	•••				2	2-9		1	` .		•••
	Biyana	••	•••		1055	1											•••				. "	• •	.	•••
Į					1056			-								 		4	2.4					•••
•						1						ال.						,				"		••

DIX B.

crop experiments.

								CIII	AHI.					SAII	RABA.				BA	RANI.	·	NA Ki	nri o: natili =Nahr =Kna nili,)
	,					PRES	BNT.	Cn. Saib	AHI ABA	Cn.	ini Meb.	Per	SENT.	For	MER.	BAI	aismi.	Ba	Bawi.	Bi	nur.	Kn	=NAUR =Kna
Grops.	X	lame of Ta	hsil.		Name of year.	Number of experiments,	Average produce in maunds.	Numbor of experiments	Arerage produce in maunds.	Number of experiments.	Average produce in maunds.	Numbor of experiments.	Average produce in maunds.	Number of experiments.	Average produce in maunds	Number of experiments.	Average produce in maunds.	Number of experiments.	Average produce in maunds,	Number of experiments.	Averago produce in maunds.	Number of experiments.	Average produce in maunds,
					1954	·												<u></u>			<u> </u>		
	Bhusawar	***		•••{	1955	3	5.3	***		29	3.9	2	3			•••		17	3.7	•••			
	,				1956																		
				į	1954						,				•••	•••							
	Rupbas	•••	•••		1955					4	2.0	4	3					2	2.7	8	2.7		 ·
Bajra.				IJ	1956							<i>.</i> .,	•				•••	G	1.5			•••	***
B	,				1954					8	3.1						•••	10	2.0	10	2.4	•••	•••
	Oochain.	***	***	{	1955									•••						•••		•••	***
				Ų	1956	•••						***			••								••
. [1951	***			•••	•••			•••		•••	***	···		"				***
	Biyana	•••	•••		1955	`												3					***
-	, 		·										—							_			
([1954		,			<i>.</i>			·										•••
	Bhusawar	***	***		1955	•••	•••			•••								2	1.3				***
				ָ י	1956	•••	•••															•••	***
.					1051	•••						•••				,	•••		•••				•••
	Rupbas		*** *		1955	•••	***			-2	•4	4	•7		•••	•••		3	1.2	2	1	***	***
Ę.			•	·	1956					1						1		3	.5				
	Oochain	414	***		1955					2	2.2			1	4.2	***		,	1.3	***		***	
				Į	1958															•••		***	
				, 	1951					-				-	-					,			
٠.	Biyana	***	•••		1955			-							-					1			•
	4			Į	1936		-	-	-											4-1		***	•

APPEN-

Statement showing.

								CHA	ні.					BAIR	ABA,				BAI	RANI.		Nar Kn	IBI OR ATILI NAMES	
		,				Presi	NT,	CHI	HI BA.	Спл гов:	HI INN.	Pres	BHT.	Fon	IER.	BAB	ishi.	Вал	ANI.	Bı	IUR.	Kn=	KHA-	
Grops.	,	ame of Ta	heil.		Name of year.	Number of experiments.	Average produce in maunds.	Number of experiments.	Average produce in maunds.	Number of experiments.	Average produce in maunds.	Number of experiments.	Average produce in mannds.	Number of experiments.	Average produce in maunds.	Number of experiments.	Average produce in maunds.	Number of experiments.	Average produce in maunds,	Number of experiments.	Average produce in maunds,	Number of experiments.	Average produce in maunds.	
ſ				ſ	1954		•••	•••			•••			***		•••	•••							-
	Bhusawar	***	•••		1955			•••						•••										
				l	1956		•••	•••		•••			<i></i> .	•••	•••		•••			,,,		•••		
1					1954							•••						,		<i></i> .				
	Ruphas	***	***		1985							.,,			•••	•••	***	· 						
Sugarcans.				į	1050				:				•••	•••	***	•••								
gug					1954								•••	•••	•••		•••			•••			 '	
ļ	Oochain	•••	***		1955			1	17.5			•,•	•••	•••	•••	•••	***	•••	<i></i>	***		•••	•••	
				ا د	1956		•••		9.5			•••	***	•••	•••	***	•••			***			····	
	Biyana	***	***		1955							,		•••	•••			•••		•••	***	•••	· · ·	
				l	1056			1	8			<i></i>			•••	•••	•••	•••	•••	•••	;		•••	
٠			· · · · · · · · · · · · · · · · · · ·		1951	G	6																	
	Bhu-awar	414	•••	,,,	1055	31	7.6	4	8.4				5′6		4,,		:				:		,,,	4
				Į	1956												•••			i	₩.		***	
				ĺ	1951	6	4.2		-			5	2.2							•••	•••	•••	per	
	Rupbas	***		 	1955	Ð	2.3					5	2.7					۸.		יני	•••	***	***	
Wheat.	 			Į	1950	6	10.7					4	7.6							•••				
Þ					1051	10	5.8										`	<i></i> .		•••			***	
	Oochain	***	•••	 √	1953				-			2	c .8								 (N. 1	6.8	
				,	105							1	5.18				.•.			•••	"{	Kh. 1	B·7	
	Biyana	***		,	1034		7:3			-		1	4.8				***						***	
			t		103	;													,	***	•••	***	me	

DIX B .- continued.

crop experiments .- continued.

,									CH	Ані.					SAII	RABA,	<u></u>	<u>``</u>		BAÏ	ani.		Na:	TRI OR
			•			ļ	Pnes	ent.	CII: Sair	AHI ABA.	CHI	MER.	Pres	BENT.	For	лвв.	BAT	isni.	DAR	awi.	Bı	IUB.	Kn x	IRI OR IATILI = HARRI = KHA- ILI-)
•	Crops.	N	fame of Te	thsil.		Name of year.	Number of experiments.	Average produce in maunds.	Number of experiments.	Average produce in maunds.	Number of experiments,	Average produce in maunds.	Number of experiments.	Average produce in maunds,	Number of experiments.	Average produce in maunds.	Number of experiments.	Arerage produce in maunds.	Number of experiments.	Average produce in maunds.	Number of experiments.	Average produce in maunds.	Number of experiments.	Arerege produce in maunds,
	· {				ſ	1951	0	7:4				***						 •						
ė.		Bhusawar	***	***		1955	42	8-8			Б	11		***				•••						
•	.[1956	•••			٠	•••	•••			•••	,						•		
	.]					1954	7	3	•••		•••	···	4	2	***	•••				***	***		""	•••
		Rupbas	***	•••	{	1955	17	3.8	•••		•••	•••	3	2.3	•••			•••		•••	•••	•••		•••
	Barley.	-			į	1956	7	10·4 4·8	***	8.8	•••	***	1	6	,	•••		•••		2.4	•••	***		***
		Qochain	***	***		1951	11 24	7.1	3	8.4		***	1	3-9	•••	•••		•••						
						1058	20	4'37	Б	9.35 {		Nahri, 12:62	} 1	3.4		***				***		{	N. 2 Kh. 1	5·25 8·4
					ſ	1054		•••	***					***	•••	100				•••		•••		•••
	İ	Biyana	•••	•••		1955	29	7·16	3	8•≰	•••	•••	1	•3	•••		•••					•••		•••
	į	,			{}	1956			***	***	!			•••			***	•••						***
									_															
*			•		{	1951	***	***	***	***	2	3.2	8	 5·1	•••	***	1	3.8	3	2.5	1	2		***
		Bhusawar	***	***		1256		141	•,	•••	•••				•••							***		***
	[į	1951		•••			•••			•••	•••	,		•••	4	1.5		•••		•••
	ļ	Rupbas	***	***		1955	•••		•••		•			•		•••			1	2.8		***		
	ġ	· ·			ļ	1058							3	G			•••	· 				•••	•••	•••
	Gram.					1951		***	***		•••		5	8.1	•••	•••			10	2.0			•••	***
		Oochain	*** \	***		1035		•••			•••	•	1	7'2	•••	•••	•••		2	3.2	• "	•••		***
					. (1956	•••	•••		,	•		•••	,	***								N, 1	.
·4		Biyana	***	***		1955							 5	7:2				٠		-	-			***
			•		[1956			,==			•••				 -			-					***
		1					[1	Į.										1	!]		

Statement showing

	-							СНА	ні.					SAII	RABA.				BAR	RANI.		NAT KH	RI OE ATILI NAME
				1	,	. Presi	NI.	Спа	HI BA.	CHA		Pres	ENT.	For	мев.	Вав	івні.	Bat	EANI.	Br	IUB.	Kn=	KHA-
	ĸ	ame of Ta	hsil.		Name of year.	Number of experiments.	Average produce in maunds.	Number of experiments.	Average produce in maunds.	Number of experiments.	Average produce in maunds.	Number of experiments.	Average produce in maunds.	Number of experiments.	Average produce in maunds.	Number of experiments.	Averago produco in maunds.	Number of experiments.	Average produce in maunds.	Number of experiments.	Average produce in maunds.	Number of experiments.	Average produce in maunds,
				. (1954		••	***,					•••										
	Bhusawar				1955		•••	***		•••	•••	1	5°G	•••					•••			<u></u>	
				, [1958			•••		•••	•••	•••	•••	•••				•••					
				ſ	1954	2	2.7	•••		•••	***	3	2.7	***				3	1.2			 .	
	Rupbas	•••	***		1955					···.		1	3.2	,			•••	•••					
				<u></u>	1956							1	10	***								•••	·
				ſ	1954					***		6	5.2	•••				4	2.8	••	•••		•••
	Oochain	•••	***	}	1955				•••		•••	•••		•••		•••	•••	•••				•••	444
				l	1956	1	3.7		••		•••	2	2.72	•••	•••		•••	•••		•••		•••	•••
				ſ	1951	•••	•••	•••	•••	•••	•••			•••	•••		•••				***	•••	
	Biyana	•••	***	{ 	1955					•••			₩	•••	•••	•••			•	•••			***
Y				į	1956	•••		•••	•••	***	•••	•••		•••	•••					•••	•••	•••	***
																						-	
	Bhusawar	***	***	{	1951	4	8.6	" 1	10.6				•••	•••	 -		•••			***	•••	•••	
		•••			1956	"				***	•••	1	7.5	•••	***	e	•••	•••	i	•••	•••	•••	***
					1951		4								*			***			::		***
	gabpaa	•••	•••		1955	3	3'4			•••			•••	•••			•••				•••		
į			•		1050	. 4	8.0						•••	***						•••	•••	••	***
Gojra.				i	1051	,	13.4	1	£.€			1	9.6							•••		•••	***
	Oochain	***	•••	•	1953	1	11-2							***			***	•••			•••	·	,
				į	1056	4	4"1	1	11.2			4	3		 .			•••		241		***	•••
					105							ļ		"				***		***		•••	,
į	Blyana	1=+	***	,	1953	2	8-1	2	4.7			1	2 8					•••		•••	***	***	
1	4			ŧ	1956	-	-											•••				•	1111

DIX B .- concluded.

crop experiments-concluded.

								CH	AHI.					SAI	RABA.				BA	BANI.		NA Ki	HRI OI
	, 1					Pass	ent.	SA11	AHI BABA.	Cn For	ANI NEE.	Pre	SENT.	For	MEL.	BAI	eisni.	Bı	dant.	В	nce.	Ku	HATILI NAME =KHA-
Crops.	1	Name of Ta	ahsil.	•	Name of year.	Number of experiments.	Ayerago produce in maunds.	Number of experiments.	Average produce in maunus.	Number of experiments.	Average produce in maunds.	Number of experiments.	Avernge produce in maunds.	Number of experiments.	Average produce in maunds.	Number of experiments.	Average produce in maunds.	Number of experiments.	Average produce in manudy,	Number of experiments.	Average produce in maunds.	Number of experiments.	Average produce in maunds,
	Bhusawar	,			1955				7		-	2	5 6			 			-	,,,	\-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
•	Rupbas	•••	•••	•••	1055							3	1.3										
Cochnf.	Oocháin	***	***	4	1955							2	1'3									N. 1	5.8
Į	Biyaus		•••	•••	1955		<i></i>												 :				
ſ			,		1554	4	1	<u> </u>							 -							-	
	Bhusawar ,	100		{	1955	12	1'9	1	3.2										•••	•••			
ed).	Rupbas	***			1051	•••	•••		•••	***										***			
Zira (cumin seed).				ı	1051	***	***	,,,															
Zira	Oochain	•••	***		1955	•••	***			***	•••	<i></i>				ı.	•••			•••		***	
.	Biyana		•••	{	1954 1955											***							
. (Bhusawar				1955	1	,G-1													 			
1:	Rupbas	***	***	•••	1955	•••				•••												.:.	
Katçnî.	Oochain	•••	•••		1955		•••																
Į	Biyana		***	,	1055	•••	,					•			···.								
1	Bhusawar	•••	***		1955					2	1.8	1	1-1					7	1	.:			***
Masina.	Bupbas	•••	•••	•••	1025																		***
·	Oochaln	***	***		1955						•			-		"		<i></i>	**				•~
Į	Biyana	•••2	***		1622		•••	•						•••					-			***	***
	Bhusawar	•••	***	•	1925	1	6.5			1	1.35							***	-	-			•••
Maize.	Rupbas	410 5	•••		1955					-					-	-						-	**
	Bigena	***		•••	1205				-											1	-	1	>c4

APPENDIX C.

Showing prices.

		,	AU	ш.					
	,indooD			1 : :	1 :	::	: :		
	Gojra.	. : :		1 1	: :	1 : :		::	
	Bejar.	. 38	56	:	: :	£3 ::	22 :	1 :	3 1
RABI.	.zbəəa IiO		 19	13 13	£1 £1	13	13	27	13
	дгат,	25.	27	53 S	23	g ei	នន	នន	ឌ អ
	·Barley.	23	28	27	27	77 77	25.	8 8	33
	Wheat.	23	20	20	20	20	18	23	23
	· JiT	10	10	12 9	11	10	11	13	12
	Masina.	18	17	20 20	21 18	23	21 18	32	23.
Кнавів.	Jwar, maize.	22	27 26	28	25.	23 23	ន ន	33	31
	.cricaE	77. 78.	61 63 -# 63	50 20	ខាដ	ឌ ឧ	ឌ ឌ	28	8 8
	Cotton.	10	10	51 E1	51 51	12	11,	11 01	11 9.
	`	. ; ;	: :	: }	‡ ?	÷ :	i 1	; ;	: : '
		\$:	: :	: 1	3 i	: :	: :	# I	: :
	Details,	: :	ŧ ŧ	Ξ ξ	: :	: :	! !	€ 	: :
		<u> </u>	1 =	¥ ±	: :	i i	: :	: :	# # `
,		Harvest Bazar	Harvost Bazar	Harrest Bazar	Uarvest Bazar	Harvest Bazar	Harvest Bazar	Harvest Bazar	Harvest Bazar
		}	<u></u>	~~~		~~~	<u>ڄ</u>	٠,-	<u>ښ</u>
		4	*	:	i	:	:	:	
	Sambat,	ŧ	ŧ		:	:	į	ŧ	:
		1550-81 to 1859-90	1890-91 to 1893-99	1830-81 to 1889 90	189 0-91 to 1893-99	18£0-\$1 to 1839-90	1890-91 to 1898-09	1880-81 to 1889-00	1590 91 to 1695-29
	Tahsil.	pra.		• sited		*****		· Aunt	

APPENDIX D.

Statement showing Produce estimate of Tahsil Rupbas.

APPENDIX D.

Statement showing Produce estimate of Tahsil Rupbas,

	•				,	XUV	11										
62		Total of both crops.	8,325			3,656	:		4,670	:	:	1,408	;	:	166		:
28		.latoT	7,519	:	:	:	:	:	2114	:		1,193	:		;	:	:
27		Others.	551	10	:	:	:	;	18	:	:	~	:	<u> </u>	;		;
92		Carrots.	16	:	i	;	:	:	;	:	:	:	;	:	:	:	
25		Zira (cumin seeds).	2,061	Rs. 12	:		:	:	;	i	;	40	;	:	;	:	:
25		Vegetables.	20	Rs. 13	;		<u> </u>	;	:	;	;	C	:	;	;	;]
83	Ħ	Tobacco.	83	Rs. 30 p. b.	:	;	:	':	H		:	:	:	:	:	:	i
22	Rabt.	Sarson,	159	61.	318	;	:	:	08	-1	08	18	e1	162	:	:	:
21		Gojra.	383	æ	190'8	:	٠,	:	es	င	ຍ	61	û	450	:	ï	1
20		ДацэоБ	1	7.1	6 6,	:	Ŀ	i	13	. 6:	30	12	89	υO	;	:	:
19	٠.	•3rieH	50	18	170	:	:	:	6 0	8	22	9	8	61	:	i	:
13		Gram and peas.	88	~	196	:	;	:	63	9	186	86	4	603	:	:	:
17		Barley.	2,784	a	23,472	:	i	:	23	45	66	509	6	5,121	:	:	:
16		Wheat.	1,273	7.1	9,517	;]	:	;	c	45	40	010	88	48,50	;	:	:
15	_	.IntoT	808	:	:	3,656	:	:	4,456	:	:	ı	· ;	:	166	:	:
14		•етв.	183	10	:	31	ŀ	:	69	:	:	:	-	:	69	:	:
13		Carrots.	1	:	:	÷	:	:	:	<u>:</u>	:	:	:	:	:	:	:
12		Vegetables.	38	ßs. 13	:	31	:	:	مد	;	:	:	-	:	:	:	:
Ħ		.CoordoT	41	Rs. 30	:	26	:	:	æ	:	:	:	:	i	:	:	:
. 10		Sugarcane.	35	Bs. 20	i	:	:	:	:	:	:	:	:	:	, :	i	:
0	Кпанг.	"lit	23	23	63	00	es	180	323		610	;	:	:	ย	र्द	ю
8	Кп	Gawar charri.	1	:	:	46	;	:	203	<u> </u>	-	:	:	:	6	;	<u>:</u>
~		•taiaa%	8	สี	20	17	25	43	93	হ্য	233	2.	:	:	:	:	:
9	,	.Vaire.	:	:	:	1	:	i	:	:	: 	:	:	-	<u>:</u>	:	:
20		.127/2[2	42	83	50	49	223	330	41	1,650	:	:]	:	-	6	
4		Bajra.	ដ	12	8	3,129	*	12,516	2,777	4	11,109	:	;	:	96		33.1
6		-molton	457	88	1,000	<u>క్ష</u>	"	- 1 00	669	ਵੱ ੰ	1,522	:	:	:	υ	* 	n .
6		Details.	Area	Rato	Produce	Area	Rate	Produce	Атса	Rate	Produce	Агеа	Rato	Produce	Area	Rate	Produce
1		Bolis		Irrigated			Unirrigated			} 200		<u></u>	Irrigated			- Univigated	
			-		·	Present.	1प्रेंग्;		<u> </u>	Former		<u>-</u> _		denles J	Grqo		\

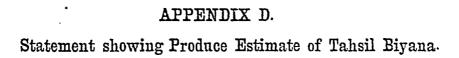
APPENDIX D-contd.

Statement showing Produce estimate of Tuhsil Rupbas-contd.

20		Total of bolh crops.	609,2	:		273	:	1	11,497	:	ŧ	278		;	44,733	:	<u> </u> :
88		Tolal.	4,920	:	i	272	į	į	1,460	ı	· 	150	i	:	3,116	ı	
27	-	Others.	16	:	i	1	:	:	\$	i	i	26	:	:	202	:	:
20		Carrota.	:	i	:	ŧ	:	i	:	i	ı	:	:	:	:	;	;
25		Zira (cumin seeds).	32	:	;	:	:	:	;	:	:	:		:	:	:	:
12		Vegetables.	:	:	;	:	1	:	;	;	;	:	;	:	;	:	:
23		*Coorceo.		i		:	:	:	:	:	:	:	:	:	:	:	:
83	,	-nosic2	882	e1	770	**	63	og 2	282	11	201	:	:	:	602	. =	1,203
េត	Rant.	.crico	558	10	2,790	"	12	15	;	:	:	:	:	:	F .	က	⁸
20		Goclini.	11	10	855	:	1	;	æ	3	ñ	ä	, 61	8 3	22	6	171
a		.trfoH	391	LC)	1,055	:	:	i	215	8	735	11	- ·	ಚ	82	°	237
18		Gram and peas.	830	۰ ا	4,605	:	:	:	000	es .	1,500	8	8	207	1,044	8	4,032
17		Barley.	955	10	4,775	140	٥	745	203	4	812	35	*	15	220	*	88,
16		Wheat.	1,380	#	6,251	H	#	513	83	=	374	-	***	1	-	63	# .
15		.fatoT	770	;	:	:	:	:	10,003	:	:	er er	:	:	41,018	:	
72		t)thers.	17	:	;	:	:	;	48	:	:	12	:	. :	8	:	<u> </u>
22		Carrots.	;	:	:		:	:	:	:	:	:	:	;	;	:	;
13		Vegetables,	i	:	:	:	:	:	-	i	:	:	:	:	3	i	:
=		Tobacco.	:	:	:	;	i .	:	:	:	1	:	i i	1	99	i	:
2		Suzareane	;	:	:		:	1	;	:	:	:	:	:	:	1	1
0	Kuarit.	Til.	83	1 67	502	;	:	:	1,833	61	3,660		61	타	5,176	61	10,353
8	Кпл	Gawar charrl	23	:	:	:	:	:	513	:	;		:	;	2,115	i	:
		Nasina.	a	1 22	i i	;	:	:	100	17.	423	:	:	:	3,017	:	\$000
0		Jaize.	:	:	:	:	i	:	;	;		:	:	:	÷	ŧ;	:
100		Janat.	69	-	Ē	;	:	;	1,394	က	\$6 : *\$	2	ະ	13	5,819	ะ์เ	14,518
-		Halra.	187	-	1,931] :	;	ï	29,63	ဗ	15,163	80	ត	223	23,178	67	57,015
-		Cotton.	38	=	8	:	:	:	190	E\$	1,923	:	:	i	1,501	63	3,602
7		Defails.	Area	Rate	Produce	Area	Rate	Produce	Area	Rate	Produce	Area'	Rate	Produce	Arca	Rate	Froduce
		Roile.		Salraha present together with forrest chabl and 4			Ebstill			Former Safeaba			Falraba Barield			Barani	

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$\mathbf{x}\mathbf{c}$	1X

8,154		. 1	88,949	i	! !	, 		4,42,320	22,166	420,210	Others. 3,15,253	28, E
335	:			I	i .	:	:		ឌី	420	<u> </u>	
	:	<u> </u>	19,681	;	. :	; -	1	167,725	I	:	Chahi.	1,0
, 58	:	:	1,089	:	72	:	1,015	10,150	;	:		: :
:	:	:	៩ .	:	:	16	:	:	i	ŧ		hare
:	:	:	2,108	:	. 88	i	2,080	21,060	i	ŧ		State share
:	:	:	88	i	41	i	18	1,008	:	i		:
	:	:	. 23	:	တ	•	83	2,160	:	i		
247	1	217	2,052	3,376	308	101	2,007	9,300	i	i		:
· :	:	:	1,008	6,367	424	ŧ	5,943	9,143	:	;		:
	:	i	261	1,183	100	;	1,078	1,650	1	i.		:
13	ES.	26	779	3,249	311	ī	2,038	3,917	÷	1		:
99	61	8	3,158	12,678	1,220	; ·	11,458	16,277	:	ŧ		:
16	ဗ	88	4,953	34,695	1,768	1,734	31,593	42,124	:	;		:
જ	64	ဗ	3,4:9	21,633	1,271	:	20,365	38,721	ŧ	:		
7,819	ı	. :	60,427	ı	ı	i	ŧ	284,601	I	:		i
10	:	:	479	:	48	ŧ	431	4,310	:	ŧ		:
:		-		:	i i	, 1	:	i	:	ı		:
	:	:	106	- :	10	į	96	1,163	, :	i		:
·	:	:	162	1	91	i i	146	4,380	:			
	;	:	35	:	4	ŧ	31	620	ï	:		;
1,617	67	3,23	1,053	18,361	1,836	:	16,525	60,051	•	1		:
\$98			3,705	:	1	3,705	:	:	ŧ	i		:
1,712	Ħ	2,569	5,055	9,401	016	2,351	6,113	182'6	ı	:		:
:	:	i	. :	:	1	ŧ	:	i.	÷	i		1
187	777	467	7,910	21,173	2,117	:	10,056	25, 108	i	i		<u> </u>
3,703	61	7,101	38,520	1,06,733	10,673	:	620*96	1,47,783	1	i		;
231	===	317	4,300	9,105	910	E	8,510	31,070	i	i	•	:
Area	Rate	Produce	Area	Produce	:		i	:	i	:	•	:
	- Daur Baraal			Total	Deduction of 10 per cent, on Khaif crops 4 per cent, on Rabis—Chaih, Chail Sarrab, and Khaill, and 10 per cent, of the others on account of crops failed.	Fodder deductions—carrots and grant charri whole, on butley and sarron 6 per cent., on masina 25 per cent.	Balance	Price	Menials dus 5 per cent	Balance		Total



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APPENDIX D.

Statement showing Produce Estimate Talsil of Biyana.

						G	••										
8	{	Tatal of both crops.	38,401	:		12,260	:		7,703	:	:	2,063	, [215	:	:
88		Total.	25,016		;	=	;	:	330	:	;	2,856	:	;	:	;	
33		Others.	189	Ra. 10		;	;	:	49	-	;	8	;	;	:	;	:
52		Carrola.	147	;	:	;	-	:	:	:	;	я H	.:	:	:	3	;
12		Zira (cumin seeds).	3,085	Re. 15 P. b.	:	;		:	:	:		22	:	!	: {	:	:
75		Vegetables.	176	Ra. 12 p b	į		:	:	į	į	:	et .	:	:	:	:	:
22	-	Tobacco.	200	Rs. 30 p. b.	i		:	:	:	:	:	EQ.	:	:	ŧ	:	:
22	ar.	Poppy	23	20	:	;	i	j	:	·	:	:	:	:	i	÷	I
ız	Bant.	Sarson.	6:39	61	1,078	10	17	52	25	H	53	117	e1	235	į	:	:
		Gojra,	628	80	5,26\$:	:	i	;	;	:	284	85	2, 21, 21, 21, 21, 21, 21, 21, 21, 21, 2	:	3	1
gr Gr		Cochul.	11	68	130	;	:	;		:	:	:	i	1	:	ş	;
18		.tr[sfl	ន	86	217	;	:	:	"	e.	Ð	83	G	522	;	:	; i
12		Gram and peas.	169	4	1,113	:	:	:	258	8	11.1	137	7.	1,028	:	i	1.
97		narley.	12,518	66,	1,06,403	:		:	8	#	1 2	0,10	ä	12,100	:	:	i
22		Wheat.	6,961	2.	52,208	:	:	i	12 .	4	12	1,015	fo	9,013	:	:	i
=		Total.	13,075	:	;	12,245	;	:	7,369	:	:	101	i	1	214	i	:
52		Officta,	1	Rs. 10	;	52	i	;	37	;	:	i	:	:	0	;	;
n		Vegetables carrots.	101	Пя. 12 р. b.	:	10	;	:	18	;	ŀ	1 2-	;	;	:	:	,
ı	-	Lobacco.	119	P. 9. 30	:	;	:	:	;	:	:		:	:	:	1.	;
a		engarcane,	188	R4, 30	:	;	:	:	:	:	:	:	:	:	:	:	:
0	-	rii,	192	- d	98	7 2	64	===	82	"	450	:	;	:	:	:	:
8	KHARIP.	Jawar Charel.) 8	:	,	421	:	:	8	!	<u> </u>	;	:	:	-	:	i
2		.caisal	553	f.	633	101	**	303	623	<u> </u>	1,303	*	ត	8	-	ä	e e
0	-	.Szlalı	102	-	1,764]:] ;	:	25	"	ğ	2	ľ	18] ;	;	;
ıs		JAW2T.			7.2	82	*	1,010	757	4	3,183	<u>} </u>	:	:	ដ	"	15
*		.azicā	Z Z	140	2,850	10,629	"	42,116	3,098		15,002	្ត	-	§	, E	*	299
8		vnotto	2	15	37,630	738	64	1,470	1,108		2,210	6	=	Ä	5	*	85
. 61		Details.	Area	Rate	Produce	Arca	Rate	Produce	Area	Rato	Produce	Агеа	Rate	Produce	Arca	Rate	Produce
			<u> </u>	.bole2i		.722128	doted.	miaU	-	TERES'	•3		gajeq•	hil		bəingitt	190
		, Bolis,	-					CHY	<u> </u>				,1 x	1212E	etrits:	Catal	
ı	,1		1									1 .			в5	ว	

APPENDIX D.—contd.

Statement showing Produce Estimate Taksil of Biyana-contd.

83		Total of both crops.	15,073	:	:	680	:	:	3,693	:	i	1,927	:	:	0 62,550	I .	:
85		-fatoT	10,958		:	680	•	:	176	' ‡	:	924	:	:	1,150	:	-
27		•втабуО	ឧធ	:	:	:	i	÷	:	;	;	:	1	:			:
53		Carrots.	4	:	:	:	ï	:	:	:	:	:	:	:	<u> </u> :	· :	:
13		-{ebase aimus) ,criX	27	i	:	11	i	' :	:	ŧ	:	:	:	:	:	:	:
5		Vegetables.	168	:	ŧ	כו	·	:		:	:	13	:	;	36	:	;
23		Торассо.	:	i	:	:	:	:	i	:	:	:	:	:	:	:	;
81	ا د	Poppy.	:	:	i	:	:	÷	ŀ	i	:	:	:	:	:	;	:
la la	Raņt.	батков.	0:0	61	1,212	9	61	12	23	63	53	မ်း	F1	8	29	=	99
20		.m.loĐ	420	10	2,145	6	7	8	i	:	:	:	:	;	i	:	:
S.		Goebni.	401	(2)	2,005	:	:	:	1	8	, e	:	:	;	10	۳	15
18		Bejar.	1,768	LS	8,840	:	:	:	15	8	45	12	, ej	8	8		8
12		Gram and peas.	2,633	123	13,100	123	10	53	ē	#	1 1 1 1	192	6 7	263	1,157	, 6	3,471
16		Barley.	2,503	10	12,525	225	60	1,800	£	4	172	e:	4	536	168	-	673
ä		Wheat.	2,339	- 	10,525	325	9	1,950	a	4	99	213	4.	852	;	:	
=		Total.	4,1114	:	:	:	:	:	3,516	!	;	1,451	:	:	070,10	:	;
13		Огрега.	88	:	:	:	:	:	13	:	:	9	:	:	360	:	-
2		Vegetables carrots.	4	i	:	:	:	:	;	:	:	:	:	:	1 %	;	:
ı		Tobacco.	:	:	:	:	:	:	;	:	:	;	:	:	-	:	
22		*euroirSag	;	:	:	:	:	;	:	1	:	;	:	:	<u> </u>	<u>;</u>	i
0	KHANF.	fil.	101	23	253	:	i	:	155	2	310	ສ	N		851.5	[e1	4,156
8	Kin	Janat ebatti.	407	:	:	;	:	:	410	;	:	188	:	<u>.</u> ;	5,338		
-		Meslas.	663	ដ	10,65	:	:	:	583	122	2,205	270	a a	603	12,671	77	852.73
•		laize.	18		150	:	1:	:	:	:	:	:	:	:	26	e .	ă
u		swir.	282	"	1,701	i	;	:	ត្ត	E .	603	£	, n	1,317	5,827	ဗ	17,191
*	<u>.</u>	-Erlrg	2,103	7	8,378	:	:	:	1,670	#	7,615	500	e e	1,815	26,416	e	52,832
6	_	,Eoffon,	<u> </u>	#7	53	:	:	;	156	#	390	8	61	2 .	1,162	\$1	2,301
-		Details,	Area	Rate	Produce	Area	Rate	Produce	Arcs	Rato	Produce	Area	Rate	Produce	Area	Rato	Produce
	The state of the s	Rolls.		Sairaba present together with furner Chahi and Sairaba			Xbailu			Former Bafraba			Salraba Barani			Ilarah I	1

10 14,678		· i	42,515 1,60,313	:	:	:	:	1,26,883 0,03,163	45,159	8,58,003	Chahi. Others.	1,0,00,1 1,0,1,1
:	:	:	182	:	10	:	265	2,650 1,	:	<u>'</u>		
:	:	1	179	-	:	179	:	<u> </u>	:	:		Diate suare
:	:	i	4,083		165	i.	3,018	58,770	:	:		
:	:	:	441	:	33	i	412	4,0,4	:	:		
:	÷	;	212	1	c	;	205	6,150	:	;		
. !	:	:	ន	:	7	•	28	200	:	i		
10	H	10	1,465	2,859	203	143	2,511	7,183	:	i		
- I	:	:	1,380	9,886	621	:	9,363	14,103	:	1		
· i	1	:	424	2,150	202	ī	1,952	3,003	i	i		
i	:	:	1,032	0,810	938	:	8,902	11,860	:	:		
1	. :	1	4,481	20,049	1,915	:	18,173	24,231	i	:		
<u> </u>	:	;	16,711	1,34,397	6,218	6,718	1,21,421	1,56,672	:	:	İ	
:	:	:	10,889	75,311	3,706	E	71,635	13,418	:	:		
14,008	:	:	1,70,828	:	:	Ì	i	1,76,279	:	:		
19	:	:	1,007	:	101	ŧ	900	090'0	i	:		
:	:	:	303		99	1	273	3,276	:	:		
•	:	:	. 23	:	۱۵	:	\$3	1,410	<u> </u>	:		
:	:	:	18	:	es .	ı	19	480		:		
. 60	63	888	3,380	6,013	f 60	ŧ	0,210	22,723	:	:		
620	:	:	7,085	:	:	7,086	:	:	<u> </u>	;		
8,516	TT TT	10,615	30,002	61,918	6,192	9,238	46,438	71,555	;	:		
:	;	i	410	2,207	230	:	2,067	2,756	:	<u> </u>		
230	7	575	8,689	26,003	2,690		25,212	33,283	:	:		
5,695	=	7,012	50,751	1,39,226	13,023	1	1,25,303	1,47,183 1,85,631	:	:		
.6.	=	116	14,301	41,072	4,197		40,473	1,47,183	:	:		
Area	Bato	Produce	Area	Produce		1	:	:	i	:		
	Dhur Darani			Total	Deduction of 10 per cent. on kinetif erops, 4 per cent. on rabi-chah; rabi salraba and Khatiil and 10 per cent. on others.	Fodder deduction—on carrots) and gawar charri whole, on backoy and arrous 5 per cent., on masina 15 per cont.	Dalanco	Prico	Menial's due 5 per cent.	Indance		•

. It includes 23 bigha Barani, Bojra at 21 mounds rate.

APPENDIX D-contd.

Statement showing Produce Estimate of Talisil Occhain-could.

ឧ		Виклоке,					•										
g:		Total of both crops.	37,728	:	:	260		:	13,501	:	:	487	:	:	42,217	:	:
23		.fcto?	27,110	:	:	262	:	:	165	:	:	118	i	i	1,100	:	:
<u> </u>		Ofpera.	11		:	-	:	:	8	:	:	:	;	:	er	:	ı
H.		etioric)	116	:	:	:	:	·	:	÷	:	:	i	:	i	:	:
<u> </u>		Lira (cumin seed.	27.1	:	:	:	:	:	:	:	i	:	;	;	';	:	:
53		Vege tables.	:	:	:	:	E	:	i	1	i	, !	;	:	;	:	:
ឡ		Tobacco.	:	ı	:	:	:	:	1	ï	;	:	;	;	;	:	:
12	Radt.	, norse &	1,587	67	3,174	6	£3	18	19	ค	128	H,	63	63	22	=	18
20		Gojra.	2,069	10	10,315	01	IC;	20	i	:	:	n	67	0	:	:	:
<u>c</u>		focbal.	3,051	10	15,255	4	1	i	;	:	;	;	:	;	7.0	6	237
		Bejar.	7,311	12	36,570	ត	15	120	4	6	12	:	:	;	ដ	6	8
12		Gram and peas.	6,026	10	26,130	:	:	:	75	33	263	∓	ii ii	144	1,009	8	3,027
51		Barley.	1,0,2	20	14,855	129	ص	0,0	4	7	22	2	7	182	150	*	202
15		Vheat.	1,655	=	20,918	68	45	300	:	:	:	et	É	-	:	:	1 :
=		Total.	10,544	:	;	;		.	14,316	;	.:	360	:	;	41,018	:	:
52		Others.	35	:	:	;	:	;	18	i	;	Ė	i	:	1 12	:	
22		Vegetables carrots.	ដ	1	:	;		;	دد	:	1.	-:	1	:	;	;	
=		Тораесо,	:		1,600	;	:	:	:	:	:	. :		1.		;	<u> </u>
10		Sugareune.	:	:	:	:	:	:	;	:	:	:	:	:	:	:	:
0	i.	.tiT	070	- FT	1,690	:	:	1 .	2,700	63	6,112	16	10	ES.	1,893	F1 .	3,706
æ	Килпт.	Gawar charri.	1,62,1	;		:	:	:	1,291	i	:	8	:	i	3,560	:	:
2~		*rulenIC	933	िंद	2,333	:	:	;	1,150	at:	3,875	18	1.	203	11,512		23,855
0		Maixe.	: :	:	-:	. :	:	:	:	:	;	:	;	:	;		;
10		120021.	1,123	6	3,300	;	;	:	lig II	e	2,733	4	3	121	6, 117	ေ	16,261
-		Bolta.	6,001		21,001	' ;	:	:	7,597	F .	23,791	179	"	129	10,371	ŧ	15,029
6		Cotton.	- P	==	673	:	:	:	692	"	1,330	238	63	93	1,005	eı	2,100
-		Details.	Area	Rato	Produce	Area	Rate	Produce	Area	Rate	Produce	Area	Rate	Produce	Area	Rate	Produce
-		1 17 18 18 18 18 18 18 18 18 18 18 18 18 18		fairsby present together with foreign (Balil and Bairabas)			Khatin			Furner Safraba			Seiraba Barlshi	-		Dersol	

	1			`	`						,
2,802	7	=	1,33,140	:	:	1 =	:	7,78,473	38,923	7,59,550	1
*	:	ŀ	50,920	:	:	1	:	1,46,748	:	:	Chahi Others, 2,77,813 i,61,707 01,743 1,23,122
2	1	:	-213	3	15	* ·	108	1,980	:	:	Chahi 2,77,813 01,743
:	:	:	7.2	:	1	*	:	;	:	:	•haro
	1	:	1,730		11	:	1,663	21,803	:	:	State ahare Total State share
E	:	1	331	:	S.	:	303	3,624	:	:	# £
ţ ·	:	:	250	:	10	1	240	7,200	:	;	:
1	1	:	3,208	4,644	386	228	3,930	11,229	:	1	1 ,
:	1	:	3,177	19,645	1,407	•	16,239	28,058	:	:	;
:	:	:	3,130	15,510	1,651	:	13,959	21,521	:	•	.
. 1	:	:	7,564	39,331	3,736	1	34,595	46,127	:	:	1
	8	14	6,415	20,829	2,933	;	26,808	35,861	1	ŧ	ŧ
		1	14,959	1,18,414	5,661	6,920	1,06,833	1,42,444	:	ŧ	ŧ
:	;	ī	10,771	690°09	4,020	•	65,018	3,31,725 1,23,901	1	ì	. E
2,895	,:	:	82,220	:	:	i i		3,31,725	;	:	ŧ
77	:	ŧ	627	E	ន	ŧ	47.4	6,740	÷	i	ī
:	i		278	ì	20	81	233	2,796	:	E	ŧ
:	ž	3	41	:	4	I	37	1,110	:	i	:
Ĭ	:	:	160	:	16	E	141	2,880	:	;	
114	Ø	228	6,991	12,384	1,238	ŧ	11,146	40,531	;	÷	i .
111	I	:	8,413	:	:	6,413	:	:	:		ī
1,487	11	2,166	15,739	37,914	3,703	9,478	24,644	39,430	_:]	:	ŧ
<u> </u>	i		ı	:	:	ŧ	:	i	:		:
eo eo	12.	8	8,183	25,274	2,627	:	23,747	30,329	:	-	:
1,195	12	2,988	37,064	1,22,009	13,201	ŧ	109,807	1,68,931	-	:	I .
	Ť	83	4,924	12,520	1,253	:	11,268	40,975	-	-	:
	£6	Produce	Area	Produce	Deduction of 10 per cent, on Khailf crops 4 per cent, on Habi—Chabi Estraba and khajili and 10 per, cent on others,	Podder deduction—carrots and gawar charri whole, on bariey and Sarson 5 per cent, on Masica 25 per cent,	ŧ	:	*	=	£
Arre	Bata	<u> </u>			on Khai habi Bal n others.	and gam arson 6	፡	1	:	: }	1
•	3			E	per cent, Habi-C	-carrots ey and S r cent,	ŀ	Ĭ,	i	:	•
1					n of 10 cent, on and 10 p	eduetion on bari		E	dae	;	Total
•	Odar Baraal		1.06.7		Deductio 4 per khatili	Fodder d whole, on Mus	Balanco	Price	Menial's due	Balance	***
										B	יו סט-

Appendix D.

Statement showing Produce estimate of Taksil Oochain.

ខ		Restante.		*Per blglis.													,
83		Total of Soth crogs.	17,513	:	:	2,207	=	:	6,763	:	1	6,013	:	3	603	:	ī
15	Ī	Total.	15,333	;	-	:	:	:	233	٠:	:	6,473	:	:	:	1	:
5 		Others.	105	Rg. 10•	1	:	:	ŧ	Ţ	:	:	61	;	:	:	1	=
13		Carrols,	ន	, ⁵	:	:	Ξ.	:	:	:	:	5.2	:	÷	:	:	1
23	{	.(Comin seed).	1,305	Ra. 15•	ş	:	:	:	:	I	:	219	:	:	:	ī.	3
8		Vegetables.	17	Rs. 120	8	:	:	:	:		:	40	ŧ	:	1	1	:
8	j	Tabacco.	221	RB, 30*	:	:	1	;	:	:	:	20	:	:	:	1	1
8	Rant.	Garson,	ရွိ	es.	633	;	1	1	2.5	-	- -	162	63	683	1	1	1
0;		enjoĐ.	698	60	\$,768	:	:	:	6	8	G	400	C	4,464		1	=
g g		JaniooD	1	:	:	:	3	:	:	:	1	9	0	88	<u> </u>	:	:
18		Belan	28	88	783	:	:	:	91	3	48	83	#5 20	200	:	:	:
12		Gram and pease.	47	7	320	:	:	;	137	m	£119	73		112	:	=	:
16		BarleJ.	2,0,9	£6	70,857	1	:	:	23	4	231	3,635	6	25,508	:	:	1
16		VPcat.	3,100	#	26,220	:	:	ī	61	4	G	2,528	8	21,198	:	E	=
77		Total.	2,210	:	:	3,207	:	:	6,558	:	:	4.10	:	ı	603	:	;
E E		Others.	140	Re. 10*	:	69	:	1	8	:	1	្ត	:	:	1.	;	:
13		Vegtables carrots,	101	П9, 12•	:	*	;	:	63	1	:	33	1,	:	17	ī	i
ä		Tobacco.	41	Rs. 30*	:	:	1	1	:		:	i	ï	:	:	;	1
10		gaEssevoo"	22	Ra. 20	:	;	:	:	:	:	:	103	:	:	:	:	:
0	2	TIL	103	167	203	\$	61	88	429	i ii	852	10	12	25	51	23	ಜ
0	Kalete,	Ganat Chatth.	0	;	1	E	:	:	737	:	ç	-24	:	:	10	:	:
_			#	1	,103	27	ឧ	8	\$23	23	1,310	89	23	В	H	23.	"
0		71clze.	<u> </u>	!	:	<u> </u> :	:	:	:	:	,	:	:	i	i	:	<u> </u>
10		.1211tl	<u> </u>	-	150	E		¥85.	g	~	2,270	-	4	4	:	:	:
*		polica.	<u> </u>	۵	503	2,703	-	10,820	3,273	*	13,093	980	19	430	453	٣	1,910
-		Cotton.	_ [55	6,203	8	n	163	633	3	1,000	160	is	633	10	2	EE .
-		Details.	Ατία	1	Froduce	Ares	Este	Pro Iuce	Area	Rato	Produce	Area	Rafo	Freduce	Area	Rato	Produce
-		- - - - - - - - - - - - - - - - - - -)				United ated.			~~~~			Irrigated,			Valrılgated.	
n gille meretin enterne enterne en		62	,		-	Tresant	'(पृषः ()	<u> </u>		Former.			,		Chani sciraba	•	



APPENDIX D.

Statement showing Produce Estimate of Tahsil Bhusawar.

										Kuleiy.							_
	Soils,		Details.		Cotton.	Bajra.	Jawar.	Masina.	Gawar chard.	711.	Tobacco.	Bugarcano.	Vegetables,	Carrots,	Others.	Total.	
		r	Area	-	2,759	G1	13	73	13	18	2	21	Б	169	3,187	***	
((Chabi .	 	Rate		31	5	 s	23		2}	30	12	•••	10			
ent.			Produce		9,761	320	52	182	***	45		253		1,890		***	-
Chahi present.			Are=			1,579	a	13	79	2	,	•••	•••		1,679	•41	
	L Barani .	 	Rate			ن	4	1}	***	2				•••		•••	
1			Produce			6,316	21	32		4	•		•••	•••	••• I	••••	
		 [Area		16	063	175	192	177	17	•••	•"		4	. 1,511	•••	
Chah	ni former		Rate		· 2	4	4	23		3				10	•••	•••	•
	^	Į	Produce	•	32	3,852	700	450		31	***	•,,,		40		***	_
		 (Area		3				•••				***	. 7	10	***	
Ballabgarh.	Chahi		Rate		31				**1					10			
Ë			Produce		10		***			•••	***	•••	***	70	4,0	***	
	,		Area	•••			***					***		•••	•	***	
	Chabl Salraba	<	Rete	,			***		***				***			•••	
reent.			Produce										•••			***	
B-fraka	Chibit Mason		C. Ares	***		2 9	3								•••	***	
149	Esimba	***		•••	•••	4	4					***				•	
			raduce	٠.,		\$33	12				•			***	***	•••	
			Ata	٠.	4-1		:				•••				•••		
ĺ	Turnel		. Ita:		•		1				14		***		·,		
			\$7-1.00							.,.							

٠			·····		·					·						1
	 -						P	ABI.	-		······		····			
1	Wheat,	Barloy.	Gram,	Bejar	Goelini.	Gojra,	Sarson tara,	Tobacco.	Рорру.	Zira,	Vegetables,	Carrola,	Others.	Total,	Total both crops,	Bemares.
	1,182	2,183	4	15	019	67	43	47	137	816	15		14	-		
	78	νο	7	8		8	2	30	20	15	13		10			
	8,865	19,647	28	120	•••	536	66	1,410	2,740	12,270	160		140			
	137		***	***			•••		•••	***						•
		1		<i>,</i>	100		•••			*				,		
	***		•••	•••	•••	,	***				,,,		•••			
	***	100	2		•••		b16	**1			•••		421			
	, tet	***	3		*** .	•m		.,,					•••		***	
		•••	. 0	***			•••	•••		***		•••	•••			
	•••	•		,			***	•••	•••		C	•••	•••	O	~-	
				,,,	***	***				***	12		•••	•		,
		•••		•••	***	•,•	***	4+4	***		72	***	***	,,,		
,	. 15	` 47					2	C		11	27	•••	***	109	·,	
	8	9						30		15	12					
•	120	° 423	•••	•••	•••			180	***	165	921	•	***			
	***				***		,	.,,	•••	***			***		•••	
	411		***		•••			bré	141	***			•••	***		
	***		•••			113		»»	,	***	•••		•••	•••		
			•••		***		•••	•••	•n					•••	••• •••	
¥		ţ»,		,	111	•••	311	***		ros	111	e34	***	•		
							•••			•••			180			

						,			Kı	TABIP.	·	•			
		Solis.	Details.	Cotton.	Bajra.	Jamas.	Masina.	Gawar charri.	ти,	Tabacco.	Bugar-cane.	Vegetables.	Carrots,	Olbers.	Total,
ſ			Arca	2	78	6	03	41	9	***	,,,		,,,	***	228
	Sairat	n former	Rate	2	2}	3	21	•••	2			***		" .	
Ì		[Produce	4	105	19	203		18		,,,		,,,	,,,	•
			Area		47		***	1	•••		,,,				43
		ba Rarishi {	Rate		21		***	.,,	•••					.,,	
		l	Produce		118		***	•••			,,,		***		***
			Area	11	2,632	618	3,170	G11	100			***	•	9	6,981
\ 	Barar	ı l	Rate	2	21	3	2}	***	2	.			•••	10	
		Į	Produce	22	0,330	1,554	7,025	•••	200			···	•••	80	
		(Area		1,227	9	3,095	230	27		111		***	4	4,593
	Bhur	<u></u>	Rato		2	2	1]		11				***	10	
Влегановии.		l	Produce		2,454	18	4,628	•••	41				•••	40	
Bree	Tota		Атев	2,621	6,513	732	6,625	1,162	173	2		21		213	
		(Produce	0,620	19,817	2,356	13,477		312	co	···	253		2,130	
		iction on account of lure of crops kharif per cent.— { Chahi 4 per cent. } { Barani 8 ,, ,,	1	760	1,585	191	1,082		27	6		20		170	•••
	Bala	nce		0,013	19,233	2,195	12,305	•••	315	65		232	***	1,060	•••
4	Barl Ce: Gaw	ler deduction masi- 25 per cent. 25 per cent. 27 per cent. 27 per cent. 28 per cent. 28 per cent. 29 per cent. 20 per cent. 20 per cent. 20 per cent. 20 per cent. 21 per cent. 22 per cent. 23 per cent. 24 per cent. 25 per cent. 26 per cent. 26 per cent. 27 per cent. 28 per cent. 28 per cent. 29 per cent. 29 per cent. 20 per cent. 20 per cent. 20 per cent. 20 per cent. 20 per cent. 21 per cent. 22 per cent. 23 per cent. 24 per cent. 25 per cent. 26 per cent. 26 per cent. 26 per cent. 27 per cent. 28 per cent. 28 per cent. 28 per cent. 29 per cent. 20 per cent. 20 per cent. 20 per cent. 20 per cent. 20 per cent. 20 per cent. 20 per cent. 21 per cent. 22 per cent. 24 per cent. 25 per cent. 26 per ce			***	•••	8,009	*1*	bad	•••	•••	•••			***
	Balt	inco	Mds {	9,043 11 seers.	18,232 27 scers.	2,195 30 secrs.	0,296 25 seers,	} {	915 11 secrs.	} £5		233		1,960	{
	Pric	ie	.	32,894	27,010	2,027	14,674		1,145			232		1,960	81,057
	<u>{</u>		Area	8,207	575	217	346	31							
[Chabi	Rate	31	5	4	2]		21	20	20	227	578	424	11,014
ë l	BHT.	,	Produce	28,724	2,675		805		769	1,920	100	2,724		4,210	
ви сву жав.	Спалі ввазнят.		Aren	41	5,375	60	. 29	280	62	1		2	·	63	5,938
8	CH.	Barani	Rate	3	4	4	213			30		12		10	•••
_		[Produce	€8	21,500	320	72		124	30	•	.24		630	

dix D-contd.

of Tahsil Bhusawar-contd.

		•						BABI.				•		•		
-	Wheat.	Barley.	Gram,	Bejar.	Gochni,	Oojra.	Barson tara.	Tobacco.	Poppy.	Zira,	Vegetables.	Carrots,	Others.	Total,	Total both crops.	Rewises,
										***				•••		
						***									***	
_			7	•••										7	•••	
_			3							***			•••		***	
_			23	···						•••			<i>,</i>		***	
_			8	•••		***	•						63	91	***	
_			3				**				***		10		***	
-			27	;					•	***		***	820		•••	
-						•••		•••			*** ,			***		
-	•••						•••				1.,				•••	
-							***	•••		***	•				***	
-	1,197	2,230	22	15		67	45	63	137	829	49	165	96		 	
-	8,095	20,070	82	120		5 36	90	1,590	2,740	12,435	576		950			
	359	603	Б	5	***	21	3	61	110	404	23	•••	71	•••	***	
-	8,626	19,267	77	115		515	67	1,526	2,030	11,951	£53		C83			422)
-	·	963	111				4	***	***		•	•••	***	884	***	1,33,700. Chahl. Other. 89,737 43,973 19,981 + 11,725
-	8,626. 21 seers.	18,304 30 seers.	77 30 scers.	115 30 scers.	}	615 26 secrs.	83 14 seers.	} 1,526	2,630	11,011	£53		650	•••		Stato share
	16,430	24,405	103	163		793	237	1,526	2,630	11,911	£53		669	69,659	1,10,746 7,037 1,33,703	Menial's dues. Balance.
	7,086	17,817	82	160	3	637	100	E16	31	3,665	204	395	13	30,660		
	71	9	7	8	71	8	2	30	2 0	15	.12		10		•••	
	δ3,145	1,67,623	574	1,250	15	5,00G	250	15,450	£20	61,075	2,413		840			
	.•••	·								·						
												•	·			

				<u>, , , , , , , , , , , , , , , , , , , </u>					Kn	ARIP.					
		Soila.	Details.	Catton.	Dijm.	Jawit,	Mesina.	Gawar charri.	ти.	Tobacco.	Sugareand.	Vecetables.	Carroin,	Others.	Total,
	. ({	Arca	516	0,000	2,631	979	1,213	460	413	•••	2	•••	97	12,005
]	Сплт.	Former	Rate	2		4	2 }		2	•••		13		10	
		1	Produce	1,032	27,000	10,721	2,417		920			24	14	970	
			Area	8	22	2		,		***		2		2	29
		Chahi	Rate	3}		4				***		12		10	.,,
			Produce	. 29	110	6		***				21		20	
			Area	51	£3		1	2				3	4	3	D 3
inucd.	ESBNT.	Chahi Sairaba	Rate	3}	t	٠	21		21					10	
BHUSA WAR—continued.	Силиг, Запала Ранзпит.		Produce	175	115	3 6	3		ا ک 			26		30	
IUSA WA	AHI, SAI		Area		7:		1								73
Ħ]5	Sairaba	Rate				2}								
			Produce		283										
		Darani <	Area		72										
			Produce		253		 3					 -			
	-		Area						-,						
	Cha	ahi Sairaba former ,,-	Rate .		4					***				•••	
			Produce		12						***				
•			-											· 	
			Area	<u></u>	· 1					•••		 -			1
		Khatili,			4							•••	·		
	•	(Area	-	4		•••								
		Salraba			300	4.	152	126	25						1,354
	sent.		Produce	-	1,500	2,864	2} \$80		140		 			10	
	Sairaba present.		Area	-		272	50	43	14			1			4 93
	ហ័	Barani .	Rato	. 2	21	3	2}	***	· 2	•••		12		•••	
			Produce	. 2	805	816	.75		23	***	•••	13	•"		

, ,	 	···			<u> </u>		·								 -
/	· · · · · · · · · · · · · · · · · · ·	············		b:	1		Babl	1	1	γ	1	 -	1		-
Wheat.	Barley.	Gram,	Bejar.	Gochn!.	Goļra,	Barson tara,	Tobacco.	Poppy	Zira,	Vegetables,	Carrots,	Others,	Total,	Total both crops.	Reulbes.
•••	4	872	•••		•••	, 18	***	, ***			\$ 26	23	917	***	
	43	3			***	, 1	•••					10		***	
	18	2,616		***	•••	18						230		***	
50	57	. 3			3	2	13		22	28			177		
73	· ģ	7			8	2	30		16	, 12				.,,	
375	513	21	***		16	4	890		330	336					
612	918	. 6 9	61	82	275	20		- 7	C0	27	30	4	2,176		
8		7	8}	. 8	9			20	15	12		10			
. 4,806	8,262	476	541	65G	2,175	40		110	1,035	324		40	" .		
·													4		
			·	·		···			 	,					
	·	20			·			 	 						
·	 	, ,			•»·										
				·											
		 				•••									
		3							 					···	
····		3	····							•••		•••			
•••		9			· · ·		•••								
, 76	375	•••	7		3	1	•••	•••					462	•••	
4}	ъ		Б		В	2			•••	•••					
313	1,575		35		16	2								**	
421	214	3,317	800	1,517	82	71	•••		1	4		2 3	7,459	•••	
41	5	5		δ	Š	2	, 	***	15	12		10	•••		·
1,691	1,070	21,555	4,030	7,595	410	112			15	49		2 ¢3			
***				•••						•••		 -	•••		
·				·											
* ***		-			•••	***	•••	•							

				,			K	nabiy.					
Soils,	Details.	Cotton.	Bajra.	Jawar.	Masina.	Gawar charri.		Товасев.	Sugarcane,	Vezetables.	Carrots.	Others.	Total,
	Area	13	119										233
airaba former	Rate	2	21	3	2}			•••	•••				
ĺ	Produce	20	209	156	45		39	••• •••	•••	***	***		
	Area	32	113	36	10	4	1		•••		•••	***	203
Sairaba Barishi	Rate	2	2]	3	21		2				***		
Į	Produce	G1	262	105	49		3			•••			
	Area	321	29,179	23,900	21,619	0,711	2,001			•••		351	81,427
Barani <	Rate	2		3	21		2					10	
	Produce	612		71,970	£1,620		5,054					3,510	
			5,541	'226	6,830	757							ļ
	Area						250					25	13,722
Bhur	Rate	1}	2		1 1		1 }					10	***
	Produce	36	11,052	453	10,335		391				•••	250	
Total	Area	9,255	47,597	29,160	30,311	0,219	4,171	C5	5	237	£52	972	1,30,632
	Produce	30,015	1,37,126	67,912	89,896		8,307	1,950	100	2,811	•••	9,720	***
Deduction for failure of crops Kharif. 8 per cen Rabi {Chahi 4 per cen Barani 8 per cen	11	2,473	10,970	7,036	5,611		672	150	. 8	229		777	•••
Balance		28,412	1,26,156	80,006	63,395		7,725	1,701	02	2,616		6,913	
Fodder deduction masina 25 pe cent Barley sarson Gawar-charri and Carrots { 5 pe cen whole.	17				15,810	•••							•••
	Mds	1 .	1	80,006	47,539		7,725	1,791	92	2,616	•••	8,943	p1+
Balance	" Rate per R	e. Beers.	scers. 27	30 secra.	Feers 25		FCers,	•••	***	***		•••	
Price		1,03,425	1,86,897	1,07,874	70,062	•	29,000	1,791	92	2,616		8,013	6,25,793
						,							*
								Ì					
•						<u> </u>							
F			-										

				•				Babi.							
Wheat.	Barley,	Gram,	Bejar.	Gochní	Gojra.	Sarson tara,	Tobacco.	Poppy.	Zira.	Vegetablen	Carrots,	Others,	Total,	Total both crops,	Remare.
4.,	26						***				•••		29	 ,	
	3						***	***							
`	78						-								
	11	143	4							· · ·	***		153		
	4	3	3												
	44	429	12												
	1	3,696										965	4,662		
·	4	3	•									10			
	4	11,088			.,.							9,050		***	
***												10	10		
			•••									10		•••	
•••										·		100			
8,245	19,427	0,214	1,041	1,601	900	302	629	39	3,757	263	416	1,092	46,014		
60,652	1,72,400	36,596	5,901	6,250	8,010	596	15,870	760	50,355	3,150		10,620			
2,502	6,912	2,909	397	631	337	3 0	035	30	2,255	129	60 1	813			
59,150	1,65,467	33,997	5,504	7,622	7,075	536	15,235	730	51,100	3,029		0,078			
***	8,273	•••					27						***		
59,150 secrs.	1,57,194 scers.	33,967 seers.	5,501 seers.	7,622	7,675 secrs.	<i>5</i> 29	15,235	730	54,100	3,028	***	0,073	***	***	
21	30	30	30	*	26										
1,10,771	2,00,592	45,316	7,339	11,727	11,503	1,511	15,235	730	<i></i>	3,029		9,978	4,71,18:	9,96,927	
													Meniais. duc.	47,510	
													Balance	9,47,091	
														Chabl. 4,91,711	Other. 4,55,370
4													State Share	1,79,253 #	+ 1,21,132 \$,50,701

GLOSSARY OF VERNACULAR TERMS.

[Bhabatpur report.]

В

			–
Bachh or dh	aul bachh	•••	Method of distributing revenue.
Bajra	ve>	499	Spiked millet.
Band	•••	•••	Irrigation dam.
Banjar	•••	***	Waste land.
Barani	•••	•••	Dry, unirrigated land dependent on rain.
Barha	•••	•••	A revenue on the excess area found in the possession of a mafider.
Bareja	***	•••	20 to 40 palis taken together.
Batai	•••	•••	Weighment of the gathered grain. Rent in kind.
Bejar	•••	***	Gram and barley mixed.
\mathbf{Ber}	***	***	A wild plum.
Bhait or naza	r	•••	A present or offering from inferior to superior.
Bhayachara	•••	•••	Land held by possession without reference to shares.
Bhur	•••	•••	Sandy land.
Bigha	•••		A measure of land equal to 5th of an acre.
Bigheri	***	•••	Rent per bigha.
Bihar	•••	***	Sandy upland covered with dense jungle.
Biswa	•••	***	A measure of land= $\frac{1}{20}$ th of a bigha. A share in a village or estate.
Biswadari	•••	***	Right to property or share in an estate.
•			_
			C
Chahor	•••	•••	Stiff blackish clay usually fertile.
Chahi	***	•••	Land irrigated from pukka or kacha wells.
Chakk	143	•••	An assessment circle.
Chakiri	***	***	Service.
Chanda	•••	***	Contribution or present to some religious institution.
Charri	***	•••	Jawar sown close.
Chauth	•••	•••	A form of tenure in which the landholder pays one-fourth of the assets to the State as revenue.
Cháwila	•••	•••	A small grain.
Chhut	•••	•••	A reduction of revenue.
Choha	***	741	A hole dug in the sand.
			D
Dahr	•••		A depression.
Dastak	•••	•••	A writ of demand.
Dahri	•••	•••	Naturally flooded land.
Dam	•••	•••	A coin= $\frac{1}{40}$ Re.
Dami	•••	•••	Patwar cess.
Dhenkli	***	-11	Small and temporary kacha well, which lasts only one harvest.
Dher (kacha	well)	•••	A temporary well, made without masonry.
Diwan	***	•••	A minister of State.
Dofasli	***	•••	Double cropping.
Durbar	***		Administration of a Native State.
			760

в---60

G

Gandar	***	Thatching grass—grows in low marshy lands.	
Gawar	•••	A coarse grain grown for fodder.	
Gharra	***	An earthen pot for carrying water.	
Ghi	•	Clarified butter.	
Gochni	***	Wheat and gram mixed.	
Gojra	•••	Wheat and barley mixed.	
Gol	•••	Never regularly partitioned; joint.	
		Н	
Hakk muka	ddami	A percentage by the State to lambardars on the revenue paid in by them.	
Henna or m	ehndi	A plant, the leaves of which are used for dycing hands, nails, etc.	
20220			
Inam	***	A grant from the State.	
Istamrar	400	Permanently settled.	
Iwaz khidn		Commutation for service.	
IWILK KILLIN	,	J	
Jagir	•••	Assignment of land revenue.	
Jagirdar	900	One who holds a jagir.	
Jaidad	***	Khalsa assessment assigned to persons of position.	
Jama	•••	Land revenue assessment,	
Jawar	•••	Great millet (Sorghum vulgare).	
Jhalar	•••	A small well dug on the banks of streams or tanks for utilising their water.	,
		K ·	
Kadim		Culturable waste.	
Kallar	•••	Clayey soil impregnated with saline matter.	
Kankút	495	Appraisement of the yield of the standing crops.	
Kánsa	***	A maintenance grant.	
Katha	tte	Catechu.	
Karbi	410	Dried bajra stalks.	
Kangiari	41+	Smut.	
Kasba	•••	A town.	
Khalsa	*** `	Revenue realised by State as opposed to revenue due to assignees.	
Kham (ta	hsil)	Direct management of estates by tahsil.	
Khara	***	Bitter (water).	
Kharif	***	The autumn harvest.	,
Khatauni	***	A register of cultivating holdings.	
Khewat	•••	A register of proprietary holdings.	
Khudkasl	ıt	Cultivation carried on by the owner himself.	
Kungi	•••	Rust.	
	•	E	
Lag punc	hri	A tax levied on the grazing of goats and camels.	
Lakh	•••	One hundred thousand.	
Lambard	ar	A villago headman.	
Lao		A well rope.	
Lawaris	•••	Unclaimed.	
		•	

M

Mafi Assignment of land revenue. Mafidar Holder of a mafi. Malba A cess for defraying village expenses. Malikana* A rent charge paid to proprietors over and above the Profit rent. revenue. Malmala Brackish (water). Man A measure of weight=822 lbs. Moth or mung mixed with jawar, bajra, til, etc. Masina Mewat The country of Meos. A pulse (Phasèolus acantifolius). Moth Lambardari dues. Mujrai A pulse (Phaseolus mungo). Mung An official who supervises Patwari's work. Munsarim or kanungo N Nadi A small stream. A drainage line or channel of a river. Nala Childless. Nath rule being a rule by which (grants of) land belonging to childless persons was resumed by the State. Nath Money grant from State to lambardars, etc. Nankar or chakiri Sums paid by revenue assignees to the State in recognition of their Nazarana grant. Nikasi Net assets. P Cultivation carried on by outside tenants. Pahi kasht Dwarf ber used for fodder. Pala A double row of light sticks, up which the pan plant is trained like Pali a creeper. A revenue sub division. Pargana Pan Betel leaf. ... Well made of loose stone, generally undressed and without mortar. Pathraura A written lease. Patta A division of a village. Patti Land held by shares ancestral or customary. Pattidori Village accountant. Patwari A building made of burnt brick or stone. Pukka A Brahmin priest. Purohit A sheaf. A high jungle grass. Pula Grant to temples or other religious and charitable institutions. Pun arth Spring harvest. Rabi Fuel and fodder reserve belonging to the State. Rund An official who supervises Munsarim's work. Sadar munsarim Flooded land. Sairaba Bikrami era of Hindus beginning 57 B.C. Sambat An oilseed. Sarson or sarshaf

Junglo grass. Sarkanda or kans A measure of weight=2 lbs. (40 secrs=a maund). Ser

Water-nut. Singhara

16 houses allied to the ruling family of Bharatpur, being all descended from Badan Singh, the founder of the State. Solah kotris

T

An advance by the State for agricultural purposes. Takavi

Process fee. Talbana

A vendor of pan or a grower of pan. Tamboli

Tara mira An oilseed.

A general name for Rajput landholders. Thakur

A contract or lease. Theka

An oilseed (Sesamum orientale). Til

W

Village administration paper. Wajib-ul-arz ...

Z

Zabti Cash rent per bigha.

Zamindar A landholder.

Land held by a body of owners. Zamindari bilijmal Zamindari khalis Land held by a single owner.

Zira Cumin seed. No. 3961, dated the 8th August 1900.

From-The Political Agent, Eastern Rajputana States,

To-The First Assistant to the Agent to the Governor-General in Rajputana.

In continuation of correspondence ending with your No. 1890-G., of 5th May 1900, I have the honour to invite a reference to the assessment report of the four southern tahsils, Rupbas, Oochain, Biyana and Bhusawar of the Bharatpur State recently written by the Settlement Commissioner, Alwar and Bharatpur An advance copy of this report has, I understand from Mr. M. F. O'Dwyer, been forwarded direct to you for the information of the Honourable the Agent to the Governor-General.

- 2. The Bharatpur State Council has discussed with me the various point s on which orders are required by the Settlement Commissioner, no ted in paragraph 137 of the report. The proposal made in paragraph 59-A to remit the sum of Rs. 5,05 639 out of total arrears, from 1890-91 up to date, of Rs. 6,24,139 leaving only Rs. 1,18,500 to be recovered from these tahsils, seemed to the C ouncil so very lenient including as it did a remission of nearly three-fourths out of a suspension of revenue made only last October, that they hesitated to adopt this suggestion, fearing that such liberal remissions of arrears, as had been made during the course of the settlement capped by the remission of a large p ortion of the recent suspension, would have the effect of encouraging the zem indars to accumulate arrears in the hope that a ter a few years such arrears would again be wiped out as irrecoverable and that such action taken with regard to the four tahsils under reference, would involve similar action in the other tahsils of the S tate.
- 3. In response to a telegram from me bringing the doubts enter tained by the Council to Mr. O'Dwyer's notice, he has suggested that a certain amount of the arrears—the amount to be fixed by him before giving out the new assessment—should be realised by instalments. This amount will probably be larger than proposed in paragraph 59 of his report. The rest of the arrears should not be formally remitted, but should remain in arrears to be collected in whole or in part, if future harvests allow. The remaining tahsils to be similarly treated.
- 4. The Council, though they consider that this suggestion practically arrives at the same end as that proposed in paragraph 59, yet see that it does not hold out the same encouragement to zemindars to accumulate arrears, and at their request I have telegraphed to the Settlement Commissioner saying they agree to his proposal.
- 5. The Council and I agree to all the other proposals made by the Settlement Commissioner and noted in paragraph 137 of his report. We would suggest that the dates of revenue instalments might be fixed in the Hindi rather than the English calendar, as the former is better understood and more familiar to the zemindars than the latter.
- 6. The Council desire again to place on record their keen sense of the obligation the State owes to Mr. O'Dwyer for the untiring energy, perfect sympathy and admirable thoroughness which he has bestowed upon the work of the settlement of this State.

No. 3539-G., dated Abu, the 17th August 1900.

From-The Hon'ble Lieutenant-Colonel W. H. C. Wyllie, C.I.E., Agent to the Governor-General in Rajputana,

To-The Secretary to the Government of India, Foreign Department.

With reference to the correspondence ending with Foreign Department letter No. 1749 L.A., dated 23rd April 1900, regarding the current settlement operations in the Bharatpur State, I have the honour to submit, for the informa-

Assessment Report, dated 12th July 1900, by the Settlement Commissioner, Mr. M. O'Dwyer, C. S.

Letter No. 3961, dated 8th August 1900, from the Political Agent, Eastern Rajputana States.

* Rupbas, Oochain, Biyana, and Bhusawar.

tion and orders of the Government of India, a copy of the papers noted in the margin, which contain Mr. O'Dwyer's proposals for the assessment of the remaining four tahsils* and the jagir of Ballabgarh, and the views expressed thereon by the Political Agent and the State Council.

2. The system followed in the re-assessment of these tahsils is practically the same as that observed for the eight tahsils which have been settled, and calls for no further description.

3. Mr. O'Dwyer's recommendations are summarised in paragraphs 121 and 122 of his report, and are compared with the present khalsa demand in the table below :-

Ta	hsils.		Present jama.	Proposed jama.	Increase or decrease,	Incid b	ence igha.	
						Rs.	Α.	P.
'Rupbas	•••	•••	1,05,855	1,11,000	+ 5,145	1	4	8
Oochain	•••	•••	1,72,705	1,87,000	+ 14,295	1	8	o
: Biyana	•••	•••	2,05,972	2,17,000	+ 11,028	1	7	10
Bhusawar	•••	•••	2,36,480	2,36,000	— 480	1	5	3
Jagir of Bulla	bgarh	•••	34,643	36,000	+ 1,357	1	10	3
,	Cotal	•••	7,55,655	7,87,000	31,345	I	7	2

4. The total increase proposed is Rs. 31,345 or 4 per cent.; but if the proposed khalsa demand, which includes the water-rates and certain cesses, is compared with the present khalsa demand plus the water-rates and cesses now levied aggregating Rs. 7,84,151, the net increase is only Rs. 2,849 or 5 per cent. This enhancement is small, but the Settlement Commissioner considers (vide paragraph 123 of his report) that his assessment is fair both to the State and to the cultivator and the State Council concur in this opinion.

Mr. O'Dwyer adds that the figures given by him are only approximate, and that when the village assessments are announced, the total demand may vary by 1 or 2 per cent.

5. Mr. O'Dwyer's proposals for the abolition of miscellaneous cesses (paragraph 110), the assessment of sairaba lands (paragraph 116), the taxation (paragraph 110), the assessment of sairtou lands (paragraph 110), the taxation of mango and other fruit trees (paragraph 80), the leasing of culturable waste (paragraph 74), the rates of Malba and for the term of settlement (paragraph 121) (which will be 20 years as in the other tahsils) are all accepted by the State Council. The Council also approve of the alterations in the dates of payment of the revenue instalments recommended by the Settlement Commissioner (paragraph of the Political Accepted). graph 127). The suggestion made in the 5th paragraph of the Political Agent's

covering letter No. 3961, dated 8th August 1900, that the dates of payment should be fixed according to the Hindi calendar will doubtless receive Mr. O'Dwy er's consideration.

6. If Mr. O'Dwyer's present proposals are sanctioned, the aggregate enhancement of revenue in the twelve tahsils (including the jagir of Ballabgarh) into which the State is divided will be as follows :-

•						
,				Former demand.	Present.	Increase.
				Rs.	Rs.	Rs.
Northern t	ahsils	•••	•••	6,40,325	7,35,093	94,768
Central	n	•••	•••	5,08,416	5,64,720	57,304
Southern	"	•••	•••	7,55,655	7,87,000	37,345
		Total		06.0		
		10181	•••	20,86,813	19,04,396	1,82,417

an increase of Rs. 1,82, 417 or $9\frac{1}{2}$ per cent.

7. The only point on which the State Council have expressed a difference of opinion from that held by the Settlement Commissioner is in connection with of opinion from that need by the Settlement Commissioner is in connection with the remission of arrears of revenue. The total arrears in the four tahsils since 1890-91 to 1899-1900 amount to Rs. 6,24,139. Of this sum the Settlement Commissioner recommends (paragraph 59-A) the remission of Rs. 5,05,639,

But in view of the fact that of the leaving only Rs. 1,15,500 to be realised. But in view of the fact that of the large amount of Rs. 13,60,052 (which formed the outstanding arrears up to the year 1890-91) a sum of Rs. 8,63,490 representing the total arrears prior to the last settlement have lately been remitted (paragraph 52) and that the further remission now proposed includes nearly 3 of the revenue

* Vide paragraph 2 of Political Agent's letter No. 3961, dated 8th August 1900.

suspensions made last October, the State Council are inclined to think that Mr. O'Dwyer's proposals are too liberal, and may demoralize the cultivators.

Mr. O'Dwyer has since suggested that a certain proportion of the arrears, the exact amount of which will be fixed by him before the new assessment is announced, should be realised by instalments, and that the question of the recovery or remission of the balance might be decided hereafter, the arrears of 1899-1900 in the other tahsils being similarly treated. The State Council have accepted this proposal, which appears to be sound,

8. In order to finish settlement operations during the approaching cold season, and to enable the new revenue demand to be introduced at the next kharif harvest, of which the first instalment will be collected between the 15th and 30th of November, Mr. O'Dwyer asks that the approval of the Government of India to his present recommendations may, if possible, be conveyed at a very early date. As they have been accepted by the State Council and by the Political Agent, I have no hesitation in recommending their being sanctioned.

9. Mr. O'Dwyer's able and interesting report evidences the great care and tact with which he has completed the settlement, and I trust that I may be permitted to say that his work merits the approbation of the Government of India. ٠.

Telegram, No. 3645-G., dated Abu, the 23rd August 1900.

From—The Honourable the Agent to the Governor-General in Rujputana,
To—The Foreign Secretary, Simla.

Reference paragraph 8 my letter 3539-G., dated August 17th. Bharatpur settlement have authorized O'Dwyer to announce proposed assessments subject to modification if Government so order, trust my action may be approved.

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